AGRICULTURAL OUTLOOK

August 1989

Economic Research Service
United States Department of Agriculture

Third World Debt Cuts
Third S. Farm Exports

AGRICULTURAL OUTLOOK

August 1989/AO-155



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Brief... News of Farm Trade, the CRP, and the World Feed Industry

U.S. agricultural exports for fiscal 1989 (October-September) are forecast to reach \$39 billion, the highest in inflation-adjusted terms since 1984. Export volume, however, is expected to decline from a year earlier. Declines in tons of wheat and soybeans exported will likely offset a rise in coarse grain tonnage.

While U.S. agricultural export earnings are up this year, the international debt facing the Third World has cut potential U.S. agricultural exports by about \$3 billion a year since 1982. With much of developing countries' savings and export earnings going to make payments on the debt, their investment and growth potential are down. The countries thus have less foreign exchange to pay for U.S. farm products. Developing nations account for over 40 percent of U.S. farm exports.

In China, the recent political turmoil is cutting foreign investment and tourism, international credit, and domestic economic growth. This is leaving China with less foreign exchange to pay for imports. Compounding the problem, austre policies have cut farmers' incentives to sell grain to the government for urban residents, increasing the pressures to import. And longer term farm policies have slowed China's domestic farm production growth. Balancing these competing forces, USDA is forecasting that China's demand for food grains will remain strong.

USDA's Export Enhancement Program (EEP) boosted U.S. wheat exports 10 to 30 percent in 1986/87 (June-May), according to several research studies. While specific estimates vary, the studies also show that 1987/88 wheat export increases due to the program were significantly less than the previous year. Estimates of the EEP's role in boosting wheat exports are subject to some uncertainty since they depend on assumptions about how competitors and importers would have behaved had EEP not been in place. From the program's inception



in 1985 through mid-July this year, EEP bonuses valued at \$2.6 billion have been used to move \$8.4 billion worth of commodities into international markets.

USDA predicts larger world production of most crops in 1989/90, as yields continue their long-term upward trend and weather returns to a more normal pattern. A record-high world rice crop is expected, but consumption will likely be near production, and stocks will remain low. Also, USDA projects a record world soybean crop, as the U.S. and Argentina recover from last year's dry weather.

Total U.S., wheat production this year is projected to recover by almost 17 percent, based entirely on the strength of increased spring wheat prospects. Nonetheless, projected higher domestic prices and larger foreign crops will limit U.S.

wheat exports. Larger foreign crops will cut into U.S. com exports also.

Larger total U.S. meat supplies and potentially lower feed costs point to steady red meat prices and lower broiler prices for the rest of this year and into 1990. Although beef supplies for second-half 1989 are likely to be down, pork supplies may be up from last year. Poultry production has been growing faster than expected.

The eighth CRP signup, in February, brought an additional 2.46 million acres into the 10-year Conservation Reserve. More than 40 percent of the acres added are in the Northern Plains, partly reflecting new rules making fields with cropped wetlands eligible. Total CRP enrollment now stands at 30.59 million acres, compared with the goal of 40-45 million for 1990.

Developing feed in dustries around the world can spur world agricultural trade. In developing economies, as incomes rise and the demand for meat grows, local entrepreneurs begin producing grain-fed chicken and pork in modern, factory-style units.

Because meat is expensive to transport, local chicken and pork production can be profitable even when the feed must be imported. The technologies behind confinement units and feed manufacturing are readily transferred internationally. And, many marketing opportunities arise for U.S. agribusiness exporters when livestock/feed sectors expand abroad.

Growth in greenhouse and nursery product sales slowed in 1988. While the total value of greenhouse and nursery production continues to climb, imports are rising faster and taking a higher percentage of the domestic market. Domestic output of some greenhouse and nursery products fell in 1988, in part reflecting last summer's drought. Also during the drought, retail demand for outdoor plants wilted.



Agricultural Economy

International Political Events And Agricultural Trade

With nearly one-fifth of U.S. agricultural production sold abroad, U.S. farmers have a big stake in international developments that affect trade. And, of the \$39 billion in U.S. agricultural exports forecast for fiscal 1989 (October-September), over 40 percent is destined for the Third World and China.

Farmers hear in the news that political events in the Third World and the centrally planned economies move commodity futures prices. However, it's not so much the political events themselves that are moving markets, but how the events may influence the countries' underlying economic policies.

How will the politically driven policy changes affect the countries' ability to export and import agricultural products? And what will this mean for U.S. farmers?

The policy responses vary with the mix of pressures a particular country must deal with. Pressures on an economy may arise from many sources, including surging populations, inadequate infrastructures, depressed economic growth, hyperinflation, and burdensome international debts. Of these, international debts currently loom especially large in affecting Third World agricultural markets.

International Debt Holds Down U.S. Exports

The Third World's large borrowings occurred mostly in the 1970's, and together with rising raw-materials prices and low real interest rates, the loans fueled substantial economic growth. But, with lower commodity prices and higher interest rates in the early 1980's, paying off the debt began to cut the countries' growth potential.

With savings and export earnings going to make payments on the debt, domestic investment and thus growth are cut. Moreover, the countries have less foreign exchange to buy U.S. agricultural products. The international debt problem is estimated to have cost U.S. farmers \$3 billion a year in lost exports since 1982 (see the World Agriculture and Trade article on international debt).

But the ways countries cope with their debt and other problems can affect international commodity markets in other, more complex ways. For example, when governments face large international debt payments, coupled with pressures to fuel economic development, they often spend much more than they collect in taxes. To fund the spending, they may resort to printing money at a rapid clip. This causes rapid inflation—sometimes hyperinflation. Brazil and Argentina are two examples of countries with large debt burdens, compelling domestic pressures, and rapid inflation.

Brazil's Bean Exports Disrupted

Rapid inflation often distorts relative price signals; farmers have trouble telling if today's commodity and input prices will mean a profit at harvest. The heightened uncertainty affects farmers' use of inputs, and can lower planted acreage. In Argentina, prices rose 17 percent in March, nearly 80 percent in May, and over 100 percent in June. In Brazil, prices paid by farmers rose over 1,000 percent last year, and continue rising at a rapid rate.

But for agricultural exporters like Brazil and Argentina, what happens to the government-controlled foreign exchange rates is perhaps more critical. Brazil's novo cruzado was overvalued by 20 to 40 percent earlier this year, but the government was reluctant to devalue

because devaluations can fuel inflation in the short term.

With the overvalued currency and dropping world soybean prices, the prices Brazilian bean growers received were too low to cover costs. To protest, the growers stopped selling their soybeans for two weeks in June. Though the government responded with a 12-percent devaluation, half the crop remains to be sold; sales likely will be concentrated in the next few months.

For 1988/89 (October-September), USDA estimates that Brazilian bean production reached a record-high 22 million tons, and that exports have grown by about two-thirds. Nonetheless, USDA projects that 1989/90 production will be down, and exports flat.

Brazilian bean output has grown 45 percent in the 1980's. But, had economic growth not faltered under the heavy international debt burden, much of this extra bean output could have gone to support the then-growing chicken industry (see the special article on the international feed industry). Instead, with people's incomes off, local demand for meat fell, and soybean exports surged. So U.S. farmers face more competition in the world bean market.

Argentina To Export More Wheat

The Argentine wheat crop is expected to increase this year, reflecting a recovery from a drought last year, higher world prices, and recent policy reforms set in motion by the newly elected president. In July, the austral was devalued by more than 50 percent, and the new government cut interest rates on short-term agricultural loans.

Both moves, combined with recent good weather, increased farmers' incentives to grow wheat for export; plantings are exceeding earlier expectations. In July, USDA upped its projection for Argentine wheat exports in 1989/90 by more than 7 percent. Bottom line: U.S. farmers will feel some extra competition in the world wheat market because of policy decisions made in Buenos Aires (see the Commodity Spotlight on world grain competition).



Uncertainties in Centrally Planned Economies

Policy changes in the centrally planned economies could have a major impact on world agricultural markets. Governments throughout Eastern Europe and the Soviet Union are trying to boost living standards, and have the goal of increasing meat consumption. Consequently, U.S. farmers' opportunities for grain and meat sales should improve.

In China, however, the recent political turmoil is cutting foreign investment and tourism, international credit, and domestic economic growth. This is leaving China with less foreign exchange to pay for imports. Compounding the problem, austere policies have cut farmers' incentives to sell grain to the government for urban residents, increasing the pressures to import. And longer-term farm policies have slowed China's domestic farm production growth.

Balancing these competing forces, USDA is forecasting that China's import demand for food grains will remain strong. So, among the competing uses for scarce foreign exchange, China likely will be giving the highest priority to paying for agricultural imports.

[Gregory Gajewski (202) 786-3313]

Livestock, Dairy, and Poultry Overview

Larger total meat supplies and potentially lower feed costs point to steady red meat prices and lower broiler prices for the rest of 1989 and into 1990. Although beef supplies for second-half 1989 are likely to be slightly lower, pork supplies may be higher than last year: the June hog inventory report showed total hog numbers only I percent below 1988, a smaller-than-expected decline.

Poultry production for 1989 has been growing faster than expected. Milk production for 1989 probably will be above 1988 as well, but egg production will be down and prices up.

Breeding Hogs Down

On June 1, the number of hogs kept for breeding was 3 percent below a year earlier, while market hog inventories were down 1 percent. The declines are modest

in view of producers' poor returns in the past 3 quarters. Estimated net returns over cash and replacement costs averaged below breakeven for 10 consecutive months beginning last September. At times, losses exceeded \$10 per cwt.

Liquidation of the breeding stock began last summer, when both crops and live-stock were stressed by the heat and dryness. Between June and December 1988, the U.S. breeding herd declined by about 500,000 head. However, in the first half of 1989, breeding inventories stabilized, even though returns remained negative. In fact, the 4-percent rise in the 10-State breeding herd between last December and this June was slightly more than the typical seasonal increase. Producers may have been encouraged by improved crop prospects and premiums in deferred futures contracts.

The contraction in hog inventories during the second half of 1988 was probably concentrated among smaller producers who raise their own corn and whose crop fell short of feed requirements. Faced with the prospect of purchasing grain from outside sources, they chose to cut hog production.

Meanwhile, larger specialized operations may have maintained their long-term pattern of steady growth, partially offsetting the liquidation among smaller producers. Thus, the total U.S. breeding herd showed a much smaller annual decline than in post-drought years in the past, when many hog operations were not so large and specialized.

If this year's crop prospects continue favorable, breeding inventories will probably hold steady, exhibiting normal seasonal fluctuations into mid-1990. Returns to hog producers, though substantially improved from the first half of the year, are not likely to encourage further expansion before mid-1990.

But as long as specialized hog operations can continue to expand and keep costs down, hog inventories will probably trend higher over the long term. Retail pork prices averaged about \$1.80 per pound in the first half of the year, and are expected to average about the same for the rest of the year.

Despite Lower Placements, Fed Cattle Plentiful in Summer

Placements of cattle in feedlots in the 7 reporting States during May were 75 percent of a year earlier, owing to reduced feeder cattle supplies. Demand for stocker cattle and the ability to hold feeder cattle on pasture increased as pasture and range conditions improved. Feeder supplies were lower partly because of record placements in January-April.

Not all the earlier record placements have been marketed. May marked the first month this year when cattle marketings from feedlots were above last year; marketings were up only 1 percent, though there was an additional slaughter day this May.

Cattle on feed at the beginning of June were 3 percent below last year. From January through April, net feedlot placements were 7.5 percent greater than last year. But lower May placements pulled this year's cumulative placements down 1.5 percent from a year earlier, while marketings declined 1.9 percent.

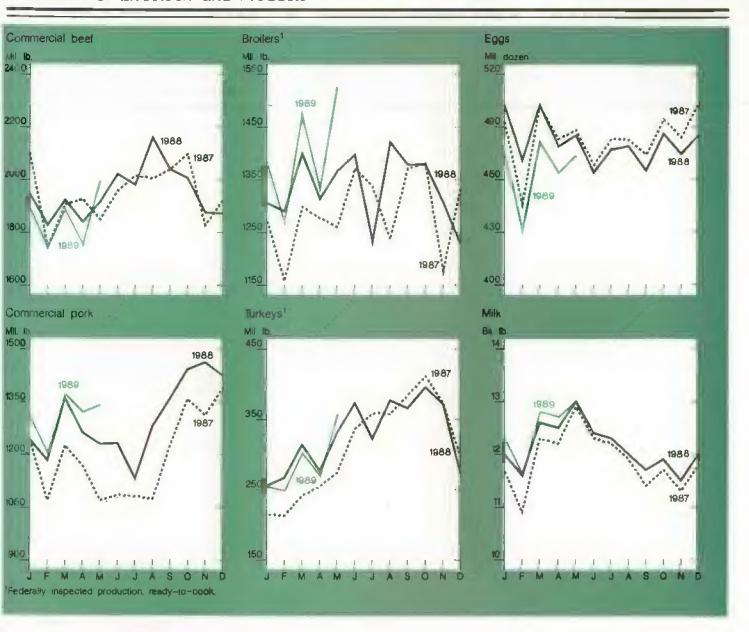
An increase in fed slaughter probably is occurring now, reflecting the earlier surge in placements. Summer beef cow slaughter is expected to decrease more than seasonally because of earlier culling.

Fed slaughter likely will be lower in late summer and fall, as will total beef production. Thus, after the summer increase of fed steers and heifers has been slaughtered, fed caule prices may climb. Price increases may be delayed, though, unless fed cattle marketings remain current.

Breeding Herd Expansion Possible

U.S. pasture and range conditions improved 3 percentage points during June. Through July 1, conditions remained 6 points below the 1978-87 average; the improvement in May and June supported a strong market for stocker calves and breeding herd replacements. Tight supplies also have been a driving factor. If temperature and precipitation remain favorable, this price strength will continue.

There are indications of a breeding herd expansion. From January through May, total commercial cattle slaughter



declined 3 percent from a year earlier. Heifer slaughter was down 2.3 percent, and beef cow slaughter was basically unchanged. The January 1, 1989, inventory indicated that beef cows were up 2 percent and heifers for beef cow replacement were up 5 percent. It is uncertain what proportion of these beef cow replacements were ultimately used for breeding.

More heifers may be slaughtered in the near future; 6 percent more heifers were on feed on April 1 than a year earlier. Still, evidence of lower cow and heifer slaughter and greater inventories, in addition to positive returns for cow-calf operations since 1985, could signal breeding herd expansion.

Retail Beef Prices Continue To Rise

Retail beef prices rose each month this year through May, as beef supplies averaged near to below a year earlier. In Junc, Choice retail beef dropped 4 cents to \$2.68 per pound. It is expected to decline further through August as fed beef supplies increase.

Estimated wholesale cutout values for Choice 700- to 850-pound carcasses dipped to a low of \$114.32 per cwt on June 9, before increasing to fill Independence Day orders. Choice beef cutout values likely declined to \$113-\$114 during July and early August, after holiday restocking took place.

Returns to Broiler Producers Likely Doubled

Net returns to broiler production likely reached 17 cents per pound for second-quarter 1989, compared with first-quarter returns estimated at almost 9 cents. Excellent returns, together with expectations of reduced second-half feed costs and strong product demand, have stimulated production.

Broiler production for all of 1989 may increase 6 percent. Second-quarter production likely was 7 percent more than a year earlier. Weekly egg sets, chick placements for May and June, and the June 1 hatchery egg flock all indicate third-quarter increases of 7 to 9 percent from last year.

The 12-city wholesale broiler price averaged 67 cents for June, almost 10 percent above last June's 62 cents. May's average was 70 cents per pound, 13 cents higher than a year earlier.

Wholesale prices in the third quarter this year are expected to average 63 to 67 cents per pound, unless extreme summer heat keeps supplies from growing at the expected 7- to 9-percent rate. The average wholesale price for 1989 is expected to be 60-63 cents, compared with 56.3 cents for 1988. Retail broiler prices are likely to drop this fall because of increased supplies.

Wholesale boneless breast prices in the Northeast were erratic during most of the second quarter. May's average price was \$2.97 per pound, compared with \$2.38 for last year—but daily prices ranged from \$2.64 to \$3.23. This June, the average price was \$2.58 and the range was \$2.07 to \$2.77.

Fluctuations in other wholesale parts prices have been less severe. Erratic prices for breasts could be a sign of buying patterns by the fast food industry; supplies are lined up for promotional activity, then purchases drop sharply as sufficient quantities are secured.

Turkey Output Begins Rising

Turkey production, while declining through April, was estimated up 3 percent during the second quarter from a year earlier. A further increase is expected in the third and fourth quarters, based on poult placements. Production for all of 1989 probably will be 4 percent over 1988.

Turkey cold storage stocks, at 357 million pounds on May 31, were up 19 percent from the previous month but down 13 percent from last year's highs. The recent gain probably indicates increasing production.

Wholesale prices for Eastern hens averaged a record 71 cents per pound for the second quarter, compared with 51 cents in 1988. However, early in July prices dropped to about 65 cents. Wholesale prices are expected to rise seasonally later in the year, although ample supplies may limit the increase. Prices for all of 1989 may average 68 to 71 cents, up from 61 cents in 1988.

Egg Output Down, And Prices Should Rise

Total egg production in 1989 may fall 2 percent, with consumption expected to drop 3 percent to 237 eggs per person. Second-quarter production likely was 2 percent below a year earlier.

Egg production probably will continue to be profitable for the remainder of the year. Estimated net returns were 8 cents per dozen for the first half. Production responses will be slowed, though, because prolonged losses over the past 2 years forced many producers to leave the industry.

Prices of wholesale grade A large eggs in New York are forecast to average 73 to 76 cents per dozen for 1989, well above the 62 cents of 1988. Second-quarter prices averaged 75 cents, compared with 53 cents last year. Third-quarter prices are expected to be 73 to 77 cents. Accordingly, retail prices are expected to be higher.

Feed Problems Weaken Milk Output

The 1988 drought finally pulled milk production down to year-earlier levels during May-June 1989. Early forage production was particularly important, because last year's drought badly depleted stocks and generated high prices for hay and concentrates. But cool spring weather this year in the Midwest and Northeast compounded the drought's effects by delaying growth of forage crops. High feed costs and limited forage eroded late-spring milk output.

May-June dairy cow slaughter continued high, and cow numbers averaged more than 1 percent below a year earlier. Simultaneously, year-to-year growth in milk per cow weakened to only about 1 percent.

Unless forage yields are poor, milk production probably will resume expanding later this year. Tight markets for nonfat dry milk and cheese will generate strong milk prices during the rest of the year. Favorable crop yields would reduce feed costs and add incentive to expand milk output. If feed costs decline as expected, 1989 milk production probably will total I to 3 billion pounds above 1988's 145.5 billion.

Poor forage yields in 1989 would have much larger effects than did the short 1988 crop. Recent weakness in milk production will persist for several months even under good conditions, in contrast to the strong pattern of a year ago. Additionally, normal forage stocks are not there this year to cushion the effects of poor yields.

Although some type of forage will always be available for dairy herds, there might not be enough good forage to support normal milk production and keep costs low. Vulnerability to weather and forage crop conditions creates major uncertainty about second-half growth in milk output.

For further information, contact: Ken Nelson, coordinator; Kevin Bost, hogs: Sue Buhler, Larry Witucki, and Lee Christensen, broilers, turkeys, and eggs; Fred White, cattle; and Jim Miller and Sara Short, dairy. All are at (202) 786-1285.

Field Crops Overview

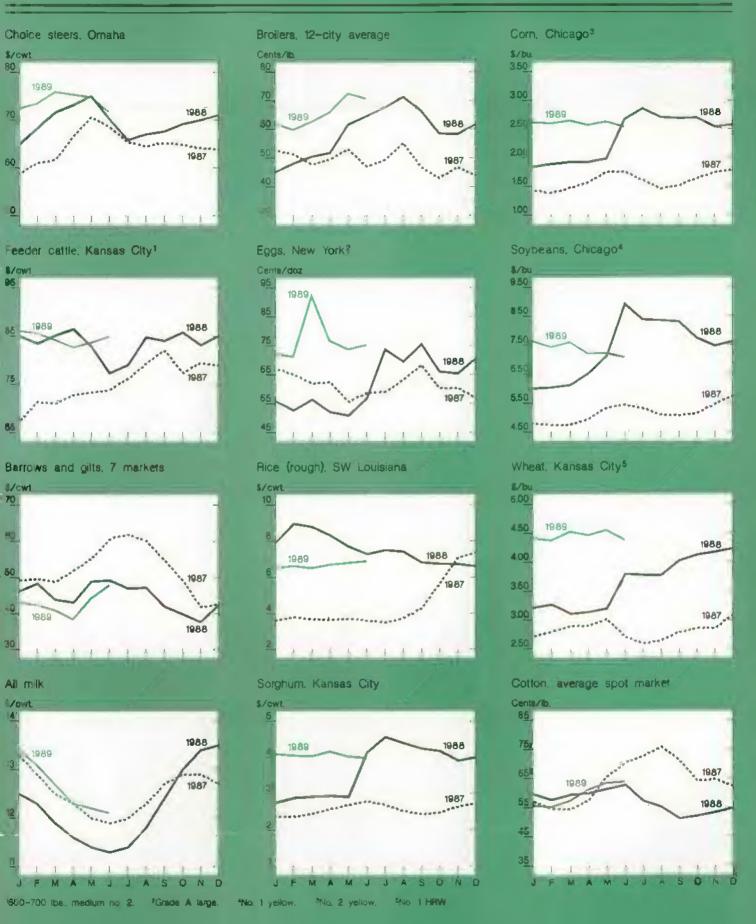
USDA predicts larger world production of most crops in 1989/90, as yields continue their long-term upward trend and North American weather returns to a more normal pattern. Tight supplies will limit U.S. wheat exports, and larger foreign crops will cut into U.S. corn exports.

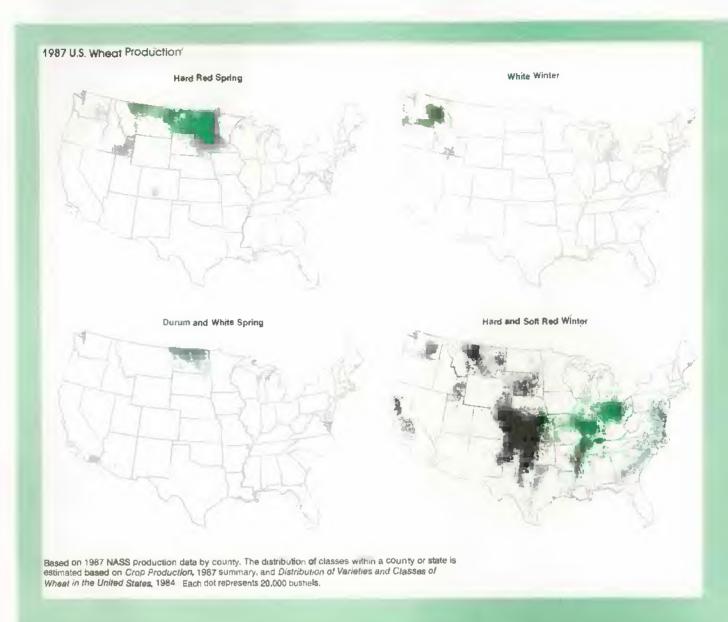
As in the past, the USSR and China will be major sources of uncertainty in world commodity markets during 1989190.

U.S. grain and oilseed crops will rebound, although winter wheat production will be down. Ending stocks for corn likely will be unchanged, while soybean stocks are projected to rise. Prices for corn and soybeans are expected to decline. But wheat prices probably will rise. U.S. cotton stocks are likely to decline significantly.

China Outlook Clouded

The usual uncertainty about China's trade intentions is compounded by the recent political turmoll. With the country's foreign exchange inflows cut by reduced tourism, less foreign lending, and less foreign investment, China's agricultural imports could fall; attempts to boost exports also are possible. But





Ins and Outs of Wheat

There are many kinds of wheat, and the different classes have their own production characteristics. Treating all wheat as a single commodity often hides important developments in the supply and demand for individual classes. However, wheat classes are not completely distinct and uniform, with some varieties resulting from crosses between classes. Some wheat classes easily substitute for each other in foods and feed, while others tend to have specific uses.

Winter Varieties Planted in the Fall

The basic division is between winter and spring wheat. Winter wheat is planted in the fall, emerges shortly thereafter, and then becomes dormant or semidormant if

temperatures drop below 40 degrees
Fahrenheit for a sustained period during
the winter. As soon as average temperatures warm sufficiently in the spring, winter wheat begins to grow again.

The winter wheat harvest typically begins in earnest in June. If summers are unfavorably hot, and dryness is a constraint, such as in Kansas, farmers use hard red winter wheat, which matures before the heat of summer. If summers are less harsh, as in Washington, a longer-season winter wheat can be grown, often with higher yields. Some white winter wheats stay in the ground 9 or 10 months.

Severe winter temperatures can kill winter wheat, especially if a protective blanket of snow is not available.

Spring wheat is often grown in areas where winter weather is harsh. Spring wheat is usually planted in the spring, after soil temperatures have warmed enough to encourage seed germination, usually at about 50 degrees.

Spring wheat yields are usually lower than winter wheat. But spring wheat varieties often are higher in protein, making them a premium choice for bread. The specialty wheat best suited to make quality pasta products, durum wheat, is a spring variety.

Hardness and Color Are Also Key

Hard wheats tend to be higher in protein than soft wheats. Gluten, a basic wheat protein, is crucial in capturing the bubbles of gas produced by yeast during bread making, allowing the bread to rise.

'High protein content is an asset for most breadmaking, but not for many other uses. For cakes, cookies, and crackers, where a crumbly texture is desirable, the lower protein soft wheats are better.

Color can be important to wheat millers. Some varieties are white, but many have a red skin covering the seed. The red wheats may require careful milling and bleaching if a white flour is to be produced. White wheat is preferred in some parts of the world, particularly south Asia, where the locally grown wheat is white and mills are not accustomed to bleaching.

The five wheat classes grown in the U.S. are:

- hard red winter wheat: the largest class, mid-level in protein, suitable for many uses, grown primarily in the Southern Plains, particularly in Kansas and surrounding States;
- hard red spring wheat: typically a high-protein bread wheat, grown mostly in North Dakota and neighboring States;
- soft red winter wheat: often used for cakes, eookies, and crackers, generally grown in States along and east of the Mississippi River, where wheat is often not the most important crop;
- white wheat: both winter and spring types and soft and hard varieties are grown, but most white wheat is soft winter wheat, grown in the Pacific Northwest or in Michigan;
- durum wheat: a hard, spring, specialty wheat used mostly in Italiantype pasta (not in oriental egg noodles), grown predominantly in North Dakota.

In 1987, hard red winter wheat accounted for 48 percent of total U.S. wheat production, hard red spring for 20 percent, soft red winter for 17 percent, white for 10 percent, and durum for 4 percent. [Ed Allen (202) 786-1840]

incentives to induce farmers to sell to the government have been hurt. Short supplies for the cities, combined with rapid inflation and urban discontent, suggest that the government may try to maintain imports of key commodities such as wheat.

Weather Hampers Winter Wheat Harvesting

According to USDA's Grain Stocks report, U.S. old-crop wheat on hand June 1 amounted to just under 694 million bushels, slightly more than anticipated. Stocks are 45 percent below a year earlier.

After winter and early spring dryness, the 1989 winter wheat crop was hit with rain and other problems that delayed harvest. As of mid-July, only 72 percent of the crop had been harvested. Last year, dry conditions accelerated the harvest, and 83 percent of the crop was in.

Also last year, Kansas harvesting was 70 percent complete by the end of June; this year it was only 20 percent finished. Harvesting in Indiana is particularly slow. The delays have left the crop susceptible to further weather-related damage and raise quality concerns.

The development of this year's spring wheat crop is also behind 1988, but only somewhat behind the 1984-88 average. By mid-July, 93 percent of the crop was headed. Later maturity generally increases the likelihood of heat stress and freeze damage.

June Corn Stocks No Surprise; Excess Moisture Hinders Plantings

June 1 corn stocks amounted to 3.4 biltion bushels, compared with 5.8 billion a year earlier, yet they are sufficient to meet both domestic and international needs.

Corn plantings in parts of the Eastern Corn Belt were late. Excess soil moisture and even flood conditions, primarily in Ohio, likely have modestly reduced plantings from farmers' earlier intentions.

For com, July is the critical month. As the crop enters the silking/tasseling stage and continues to progress, its demand for moisture is intense. By the end of June, the crop had begun to enter the silking stage, on schedule. Growth during the first two weeks in July was slow, and well behind previous years' pace.

Dry soils in Nebraska and Iowa, coupled with above-average temperatures, stressed the com crop. However, recent above-average rains and cooler temperatures have improved prospects.

In the Eastern Corn Belt, soils continue to be too wet. Nevertheless, only 39 percent of this year's U.S. crop is rated fair, poor, or very poor. Last year's crop as of mid-July was already reeling from drought, with 82 percent rated fair or worse. This year's harvest is expected to be far larger and of higher quality.

Sorghum Plantings Timely

By the end of June, over 90 percent of the sorghum crop was in the ground, only slightly below last year's pace. Although it is still early, most of the crop appears to be in far better condition than last year. Fifty-four percent of the crop is rated good or excellent, compared with only 39 percent in 1988.

World Rice Production Gains

A record world rice crop is forecast for 1989/90. Near-record crops are likely in China and India, which normally account for 57 percent of world production. Larger crops are also expected in Indonesia, Thailand, and the Philippines. But world consumption will nearly equal production, and stocks will be very low. The stocks-to-use ratio likely will be the lowest since 1974/75, and prices on world markets will remain firm.

Despite the record crop and relatively high prices, the first forecasts of calendar 1990 world trade indicate only a modest drop, largely because of expected lower imports by China, India, and Indonesia. The latter two are importing this year to rebuild stocks.

China is providing the major surprise in the market, as its exports are down sharply, imports are at their highest since the 1970's, and the country is becoming a net importer for the first time in modern history. With a larger crop this year, China's imports may drop in 1990, while exports recover. As with wheat, the government's ability to procure rice from the countryside will have an important bearing on the level of trade.

World and U.S. Producti	1987/88	1988/89	1989/90
	1,01,00		
		Million metric tons	
WORLD			
Wheat	200	500	533
Production Use	502 532	500 530	538
	106 146	99	99
Exports Ending stocks	146	116	112
Corn Production	447	398	466
Use	462	460	467
Exports	57	67 84	66 82
Ending stocks	146	84	82
Soybeans Production	103	93	109
Use	102	99	106
Exports	30 20	99 24 15	26 18
Ending stocks	20	1.7	10
UNITED STATES			
Wheat			
Production	57 30	49	58 28
Use Exports	43	49 26 39 19	33
Ending stocks	43 34	19	16
Corn	180	125	189
Production Use	152	125 133	140
Exports	44	53 46	50
Ending stocks	108	46	47
Soybeans Production	52	42	53
Use	34	32	33
Exports	52 34 22 8	42 32 15 3	16
Ending stocks	Ö	3	/

Note: Exports of wheat and corn do not include intra-EC trade shipments.

Demand for rice is forecast to continue strong in major U.S. markets: the EC, Iraq, Saudi Arabia, and countries in Latin America and Sub-Saharan Africa. However, a drop in the 1989/90 U.S. crop is likely to reduce calendar 1990 exports.

Global Soybean Output To Set Record

USDA forecasts point to record-high world oilseed production in 1989/90, with soybean output in the U.S. and Argentina recovering from last year's drought and gains projected for peanuts, sunflowerseed, and flaxseed. Moreover, a record world soybean crop is expected. While Brazil's yields are likely to drop from this year's near-record, recovering yields in Argentina and larger harvested area are expected to mean a 10-percent increase in the Southern Hemisphere crop.

Season-average soybean prices for 1989/90 will be well below 1988/89. Brazilian crush has been slow since the harvest because farmers, unhappy with prices received and government policy, have been slow to market their crops. So, world bean stocks will be ample at the beginning of the U.S. marketing year in September.

The stocks, together with the large Southern Hemisphere crop likely next spring, will limit recovery in U.S. bean exports. A small U.S. export gain, coupled with the 27-percent increase in output, will mean a substantial increase in U.S. ending stocks from this year's very low level.

World soybean crush and meal use are down in 1988/89 because of the smaller world crop and high prices. Use will recover in 1989/90, particularly in the EC, where domestic rapeseed and sunflowerseed crops will be lower.

World soybean trade is down by more than 20 percent in 1988/89, but it should partially recover in 1989/90. Larger soybean supplies, lower prices, and better margins for European crushers are expected to account for the gain.

World trade in soybcan meal is up slightly this year. A return to more normal crush margins may mean that soybean trade expands more than soymeal trade in 1989/90. With larger supplies, U.S. bean exports are forecast to increase 9 percent in 1989/90, as foreign meal users crush their own. U.S. meal exports are not expected to change.

USSR soybean meal imports are now second only to those of the EC. Growth in Soviet imports, from 0.5 million tons in 1985/86 to a forecast 4.2 million in 1989/90, is the major reason for world trade increases; EC imports are trending down.

U.S. Cotton Exports Rise

World cotton production in 1989/90 is forecast down 4 percent from a large 1988/89 crop. The smaller U.S. crop accounts for all of the decline. U.S. production prospects are less favorable because of excessive soil moisture in parts of Texas, the Mississippl Delta, and the Southeast. Planted area is estimated at 10.5 million acres, down 16 percent from last season.

Rising world consumption and low stocks are expected to restrict sales by U.S. competitors, opening the way for a sharp rise in U.S. exports. U.S. shipments in 1989/90 could total 7.8 million bales, the biggest since 1979/80. Large U.S. mill use also will contribute to sharply lower U.S. ending stocks, forecast at only 4.5 million bales.

Poor early-season weather is cutting Soviet production and potential exports. Weak producer incentives have meant below-plan output in China for the last several years. As China's once-large stocks dwindled during 1988/89, exports dropped and imports jumped. In 1988/89, China is expected to be a net cotton importer for the first time since 1982. In 1989, state-set cotton prices are up relative to oilseeds and some grains, but plantings are down and yield prospects uncertain.

USDA is estimating that China will produce a bigger crop than last year, but that imports will continue to be large while exports drop again. However, the forecast contains a large margin for error. [James Cole (202) 786-1840 and Frederic Surls (202) 786-1824]

For further information, contact; Sara Schwartz, world food grains; Edward Allen, domestic wheat; Janet Livezey, domestic rice; Pete Riley, world feed grains; James Cole, domestic feed grains; Bob Cummings, world oilseeds; Roger Hoskin, domestic oilseeds; Carolyn Whitton, world cotton; Bob Skinner, domestic cotton; Jim Schaub, domestic peanuts. World information (202) 786-1824; domestic (202) 786-1840.

Upcoming Economic Reports.

Summary Released

Title

August

- 1 Fruit Yearbook
- 7 World Food Needs & Availabilities
- 8 Agricultural Resources
- 9 Developing Economies
- 10 World Ag. Supply & Demand
- 17 Livestock & Poultry
- 18 Agricultural Outlook
- 22 Feed
- 23 Vegetables & Specialties
- 24 Wheat
- 25 Exports
 - Livestock & Poultry Update Foreign Ag. Trade Update
- 29 Agricultural Income & Finance
- 30 Dairy Yearbook
- 31 Cotion & Wool Yearbook

Upcoming Releases from the Agricultural Statistics Board

The following list gives the release dates of the major Agricultural Statistics Board reports that will be issued by the time the September Agricultural Outlook comes off press.

August

- 1 Egg Products
- 2 Farm Prod. Expenditures, 1988-Final
- 4 Poultry Slaughter Dairy Products
- 7 Celery
- 10 Crop Production
- 11 Vegetables Turkey Hatchery
- 14 Farm Labor
- 15 Milk Production
- 17 Cattle on Feed
- 18 Sugar Market Statistics Mushrooms
- 21 Catfish
- 23 Cold Storage Cranberries
- 24 Eggs, Chickens and Turkeys
- 25 Filbert Production (Tent.)
 - Livestock Slaughter
- 29 Peanut Stocks and Processing
- 31 Rice Stocks Agricultural Prices

Specialty Crops Overview

Higher 1989 contracted acreage of the four major processing vegetables likely will result in lower prices for canned and frozen items later this summer. Larger apple production will keep downward pressure on prices in 1989/90.

U.S. farm-raised catfish output has resumed its rapid growth, but overcapacity is putting downward price pressures on processors. Tobacco stocks continue down despite reduced consumption; exports are rising.

Vegetable Processors Boost Acreage

Vegetable processors are trying to replenish stocks of snap beans, peas, and sweet corn, and to keep up with growing demand for tomato products. So they have contracted for 14 percent more acreage than in 1988. Widespread drought in the Central States cut 1988 output and caused wholesale prices to soar.

Frozen vegetable stocks at the beginning of June stood 22 percent below a year earlier. Higher production this year should lower prices for canned and frozen vegetables later this summer.

Processors reported 1.41 million contracted acres for the four major vegetables. Snap bean area is up 22 percent, sweet corn up 8 percent, green peas up 15, and tomatoes up 17. More than 97 percent of total processing acreage of the four major vegetables last year was under contract.

Potato Acreage Up Slightly, Prices To Remain Firm

The July crop estimate indicates that potato growers planted 1.28 million acres this year, I percent more than last year. The area for the fall harvest is estimated at 1.09 million acres, fractionally higher than in 1988. If this year's yields are near recent averages, total production will be 365 to 375 million cwt. The average grower price for 1989 could be \$4.75 to \$5.25 per cwt.

Smaller-than-usual stocks of table potatoes and strong processor demand for storage potatocs resulted in higher prices this spring. Prices likely will continue strong until the fall-crop harvest begins in September.

Estimated area planted with sweet potatoes, 93,600 acres, is up fractionally from last year. Growers' prices likely will remain firm for the 1989 crop.

The July estimate of dry edible bean area for harvest stands at 1.7 million acres, up 25 percent from last year and 1 percent above 1987. The area rose 35 percent in Michigan and 32 percent in North Dakota. Michigan is the major producer of navy beans. North Dakota is a major navy and pinto bean producer.

If dry bean yields are near the average for recent years, production would approach 25 million cwt, compared with 19.2 million in 1988. Such an increase would cause prices to plummet from the \$29.70 per cwt estimated for 1988. Prices averaged \$16.50 for the 25.9-million-cwt crop in 1987.

Big Apple Output May Pressure Prices

Apple production is forecast at 9.7 billion pounds this season, up 6 percent from last year. The larger crop will keep downward pressure on grower prices, which tumbled this spring following heightened consumer concerns about the chemical Alar.

USDA recently announced plans to spend up to \$15 million to divert 1988-crop apples from traditional market channels to help clear stocks from storage before the beginning of the 1989 season. The action was taken to offset the effects of oversupply and low prices on the apple industry.

The California all-grape crop forecast stands at 5.2 million tons, 5 percent below last season. Raisin-type grape production is forecast at 2.45 million tons, 5 percent lower than last year, but 13 percent more than 1987. Strong demand for raisins, combined with smaller grape production, will keep raisin prices strong.

The first forecast for table-type grapes in California is 700,000 tons, 7 percent below last year and 30 percent more than in 1987. California's wine grape production is forecast at 2.05 million tons, 6 percent lower than last year.

Tart cherry production is forecast at 264 million pounds, up 12 percent from the drought-reduced 1988 crop, but 26 percent below 1987. Production in Michigan, the number-one cherry State, is projected up 6 percent. Last summer's drought killed some trees in Michigan and weakened others, while cold weather and freezes this spring reduced the cherry set. In New York, the second major producer with 9 percent of last year's production, output is forecast up 41 percent.

Catfish Production Resumes Rapid Growth

After rising only 5 percent in 1988, farmraised catfish production appears to be returning to the higher growth rates of 1980-87. Catfish processing grew at an average annual rate of 29 percent between 1980 and 1987. Processing during the first 5 months of 1989 rose almost 15 percent from a year earlier. Growers have expanded acreage in ponds and are increasing the number of fish stocked per acre.

Despite higher production, farm prices have remained firm. Growers received 76 cents per pound in May, a penny higher than a year earlier. Wholesale prices, however, are running lower than a year ago. Processors received \$2.31 per pound for frozen catfish in May, compared with \$2.37 a year earlier. Excess capacity has caused processors to bid up grower prices while cutting wholesale prices.

Possible mandatory Federal inspection is a key issue for both aquaculture and the conventional fishing industry. Several bills are pending in Congress. The main questions are: Should inspection be funded by user fees or by the Government? Should inspection cover all fish or only processed fish? Should it be limited to visual examination or also include chemical analysis for pollutants? Should inspections be conducted by the Department of Agriculture or Commerce, or by the Food and Drug Administration?

Tobacco Use Continues To Decline

Disappearance of U.S. tobacco likely dropped about 3 percent in 1988/89 because of decreased domestic use. Exports may have risen slightly from the year before. But, use probably has

exceeded marketings, and stocks carried over to the 1989/90 marketing year (beginning July 1 for flue-cured and October 1 for burley and other kinds) may have declined 10 percent from 1988/89's 2.83 billion pounds.

Per capita consumption of cigarette tobacco in the U.S. has been falling almost continuously since the early 1960's. Lower U.S. cigarette consumption and the use of less tobacco per cigarette are reducing domestic leaf disappearance.

For the year ending June 30, people in the U.S. likely will have smoked 3 percent fewer cigarettes than a year earlier, the biggest decline in 5 years. Higher prices, health concerns, and greater restrictions on smoking are the major factors. Cigarette exports are rising, but not by enough to offset slipping domestic sales.

The July Crop Production report points to a 7-percent increase in flue-cured production to 871 million pounds, and a 13-percent rise in burley acreage for 1989/90. If average growing conditions prevail, burley output could reach 560 million pounds. Production is up because USDA's marketing quota has expanded now that stocks are lower.

Despite higher production, the total supply likely will fall short of 1988/89 because of smaller beginning stocks.

Growers' marketings are regulated by their effective quotas. The effective quota is the basic quota adjusted upward for undermarketings or downward for overmarketings the previous season. Growers may market up to 103 percent of their effective quota in a particular year. Effective quotas for 1989 are 900 million pounds for flue-cured tobacco and 671 million for burley. [Glenn Zepp (202) 786-1883]

For further Information, contact: Ben Huang, fruit; Shannon Hamm, vegetables; Peter Buzzanell, sweeteners; Verner Grise, tobacco; Doyle Johnson, greenhouse/nursery; David Harvey, aquaculture. All are at (202) 786-1883.



Commodity Spotlights

Competitors To Advance In Tight Wheat Market

USDA projects that world grain production in 1989/90 will rebound 8 percent from a year earlier, after 2 years of declines. However, world grain supplies are expected to remain tight, with early projections of use slightly exceeding production. Ending stocks are likely to decline again, and are expected to be about 17 percent of use, the lowest since 1974/75.

However, the total picture obscures divergent markets for individual grains: for wheat, supplies are already tight, while coarse grains are more abundant. The additional squeeze projected for both wheat and coarse grains will be more critical for wheat.

The spread between world wheat and corn prices in the last few months is the widest since 1982. The gap will probably continue to grow during 1989/90. Corn and other coarse grain prices are projected to fall, while wheat prices should remain firm.

Wheat exporters that compete with the U.S., reacting to these signals, are expected to increase 1989/90 harvested area, production, and exports sharply. Harvested area and production are projected to be the highest since 1986. In contrast, competitors' coarse grain output and exports are projected to increase more modestly, and their changes may affect U.S. trade less.

Low Wheat Stocks Contribute to Uncertainty

Low world wheat stocks provide little cushion against an unexpected production shortfall in a major trading country. With the stocks-to-use ratio currently projected to be the lowest in 30 years, such a shortfall could lead to even higher prices. In recent months, several buyers have adjusted to higher prices by substituting coarse grains for feed wheat imports. This substitution is expected to continue into 1989/90.

For coarse grains, the stock cushion is relatively deeper, and imports account for a lower share of global use than for wheat. So, coarse grain markets will be less vulnerable to unforeseen developments. High prices for feed-quality wheat will continue to support a relatively high volume of coarse grain trade. Although well below the highs of the mid-1980's, the stocks-to-use ratio for coarse grains is projected to be in line with historical averages.

Global wheat trade in 1989/90 is forecast to be about the same as in 1988/89. For many countries, the political necessity of importing food grains will continue to outweigh the consequences of draining foreign exchange reserves, increasing debt loads, or reducing imports of other commodities.

However, global import demand is expected to be tempered by large crops in the major importing countries. China, India, and Pakistan arc all forecast to harvest record wheat crops in 1989/90.

China is projected to continue as the world's largest importer, but the outlook is clouded by the recent political turmoil. The Soviet Union's 1989/90 production is forecast up 8 percent, and the Soviets are again expected to import more feed grains than wheat.

Among other importers, the outlook is mixed. In North Africa, wheat demand continues to outstrip production capacity. In Latin America, Mexico is expected to cut back on imports, but Brazil's production could fall 20 percent, and its wheat imports could more than double.

Competitor Wheat Production Critical in Meeting World Demand

This year, the size of competitors' wheat crops is particularly critical, because their carryin stocks are the lowest since 1973/74 and U.S. supplies are also down. U.S. wheat stocks were nearly halved in the last year, and drought has reduced the 1989/90 winter crop. U.S. exports for 1989/90 (July-June) are forecast to fall 14 percent, with market share likely dropping 5 percentage points to 34 percent.

For coarse grains, in contrast, the impact of competitor changes will be smaller. Although a slight drop in world stocks is expected, the anticipated recovery in crops in the U.S. and several other countries will bring world prices down.

Total foreign wheat production is forecast at a record 476 million tons, with production by the major competitors projected to match the second highest on record. However, because world import demand is forecast only slightly below 1988/89, nearly all the projected increase in competitor production will have to be funneled into exports to meet demand, and to keep prices from rising substantially. Consequently, there will be little stockbuilding.

Competitor wheat area likely will expand 7 percent, given prospects of higher export prices. Yield improvement, particularly in Canada and Argentina, could boost total competitor production 14 percent from 1988/89. Assuming most of the increase goes into exports, competitor exports are forecast up 18 percent.

EC Wheat Output May Rise 4 Percent

EC wheat production is projected to expand 4 percent in 1989/90 to 77.6 million tons, while coarse grain output may drop 9 percent or more. Some of the land planted to barley and oilseeds in 1988/89 was planted to wheat this year, and unusually hot, dry weather has cut coarse grain yields. After record exports in 1988/89, the EC entered 1989/90 with its lowest wheat stocks since 1983/84. But high world prices cut export subsidy costs, and with increased production, the EC could export 21 million tons of wheat, matching last year's record.

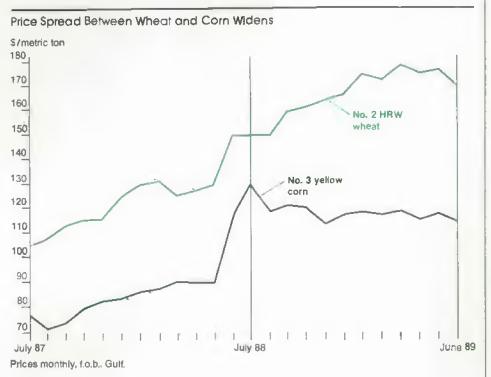
Wheat and coarse grain prospects in Canada are much improved from last year, when drought cut the wheat crop by 40 percent and the barley crop by 28 percent. Greater wheat plantings are expected, in part because the spread between initial prices offered by the Canadian Wheat Board (based on expected world prices) for wheat and barley is larger than a year ago. Wheat production could rebound to 26 million tons, more than 10 million tons above 1988/89.

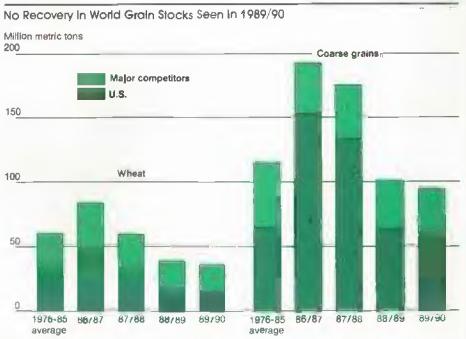
Instead of building wheat stocks, estimated at their lowest since the early 1950's, Canada is expected to take advantage of high world prices and push exports, perhaps to 20 million tons. This almost 50-percent jump would be the biggest increase among exporters, but would still be considerably below 1987/88's record.

Australia's wheat crop is forecast at 14.3 million tons, slightly below 1988/89, based on average yields and a 7-percent increase in area. Initially, favorable early planting conditions and good price

Major Competitors	' Wheat Prod	uction TO Ris	e, Exports T	o Surge	
	1985/86	1986/87	1987/88	1988/89 P	1989/90 F
		M	lllion metric	tons	
Production					
Argentina Australia Canada EC	8.5 16.1 24.3 71.6	8.9 16.1 31.4 72.0	8.8 12.4 26.0 71.4	7.8 14.5 15.7 74.7	10.5 14.3 26.0 77.6
Total	120.5	128.4	118.6	112.6	128.4
Exports*					
Argentina Australia Canada EC	6.1 16.0 16.8 15.6	4.3 14.8 20.8 16.4	3.7 12.2 23.6 15.3	3.5 10.7 13.5 21.0	5.7 11.0 20.0 21.0
Total	54.5	56.3	54.8	48.7	57.7
*July-June trade P = preliminary.	e year, exclu F = forecas1	uding intra E	C trade.	~ * - * * , , ,	

Source: USDA estimates.





Ending stocks 1988/89 and 1989/90 forecast.

prospects were expected to prompt a larger gain in area. However, wet fields recently prevented some planting, and led to last-minute switching to barley. For many producers, high prices for wool, beef, and legumes will continue to make them attractive alternatives to wheat. Australia is forecast to increase exports 3 percent to 11 million tons, and to boost stocks only marginally.

Hyperinflation Could Limit Argentine Area Expansion

While high world prices would normally encourage robust area expansion in Argentina, the actual increase could be more modest. Hyperinflation, scarce agricultural credit, and plummeting farm input sales are limiting factors. While the differential exchange rate for agricul-

tural exports has been eliminated, export taxes were reimposed in April. Yet the new government has begun efforts to stabilize the economy and provide incentives for farmers.

Moreover, planting conditions in Argentina have been excellent. A rebound in yields after the 1988/89 drought could still bring wheat production up one-third, and also allow a turnaround in corn. Argentina is projected to increase wheat exports 63 percent to 5.7 million tons in 1989/90. The country typically holds minimal stocks, so no stockbuilding is forecast.

At this point, winter wheat crops in the Northern Hemisphere have largely been harvested. With almost all the Southern Hemisphere's plantings nearing competition, world wheat supplies will remain tight and prices firm. For coarse grains, the supply and price outlook is less clear. For Northern Hemisphere coarse grain crops, the outlook is mixed, while planting is still a few months away in the Southern Hemisphere. [Pete Riley and Sara Schwartz (202) 786-1825]

Greenhouse and Nursery Growth Slows

Growth in greenhouse and nursery product sales slowed in 1988. While the total value of domestic greenhouse and nursery production continues to climb, imports are rising faster and taking a higher percentage of the domestic market. Domestic output of several categories of greenhouse and nursery products fell in 1988, in part reflecting last summer's drought. Also during the drought, retail demand for outdoor plants for landscaping and gardening wilted.

Consumers Spent Over \$27 Billion Last Year

Total consumer expenditures for green-house/nursery products may have exceeded \$27 billion in 1988. This includes retail sales of cut flowers, potted foliage, blooming plants, and land-scaping plants, but excludes the value of services such as landscaping itself, related labor and materials, and product resales. The 1988 total was only \$10 billion less than the value of retail sales of fresh fruit and vegetables that year.

According to industry figures, consumer spending for floral and potted plant items was \$9.9 billion in 1988. Adjusted for inflation, this is a 46-percent increase from 1982. The total breaks down to an average of about \$40 a person last year, up \$16 from 1982.

Retail sales in florist shops have risen sharply, going from \$3.8 billion in 1982 to \$5.9 billion in 1988. The number of flower shops climbed to 36,200 in 1988, almost 20,000 more than in 1954.

Most of the floral market expansion has been going to nonflorist outlets, primarily supermarkets. According to a recent industry study, 86 percent of all grocery store chains now carry floral products, with 52 percent devoting an entire department to flowers and plants. The study says that grocery chain floral sales have doubled over the last 4 years, and that the potential for continued growth is large.

Other Indicators Show Rapid Growth

Just-released data from the Census of Agriculture show that agricultural products sold by greenhouses and nursery farms in 1987 totaled \$5.77 billion, a 51-percent jump since 1982. The number of growers also increased, from 35,507 in 1982 to 37,298 in 1987. Average sales per farm rose 44 percent, reaching \$154,818, about triple the value for all U.S. farms. Greenhouses and nursery farms accounted for 11 percent of all farm crop cash receipts in 1987.

In 1988, cash receipts of greenhouse and nursery growers hit an estimated record \$6.9 billion, 10 percent more than the combined value of the cotton and tobacco crops. Unlike other commodities, floriculture and horticulture products have achieved this growth without direct Government payments, crop subsidies, or other Federal programs.

U.S. Growers Struggling With Foreign Competition

The U.S. market for greenhouse/nursery products is expanding, but lower priced imports are absorbing most of the gain. Foreign suppliers are aggressive, consistently delivering high-quality products while improving their production and marketing.

U.S. producers' share of the domestic greenhouse/nursery market slipped in 1988. Cut flower growers lost market share because of a 16-percent increase in imports. In 1988, foreign suppliers controlled 40 percent of the U.S. cut flower market, compared with 37 percent the year before. Since 1985, imports of cut flowers and decorative greens have jumped 53 percent.

International competition is also cutting into the market for live plants and other greenhouse and nursery products.

Imported nursery products increased 10

Commodity and origin	Atlanta, New Orleans, and Texas 1/	Boston and Chicago	Miami and Winter Park, Florida	New York Efty	San Francisco and Seattle	Total
		Unit	s of 1,000-stem coun	t, 1988		
WHAT ORNAMENTALS GO WE	HERE					
Alatroemeria Carnations 2/ Chrysanthemums 2/ Daisies Freesia Gerbera Gladiolus Gypsophila 2/ Iris Lilies Roses Statice 2/ Tulips Other cut flowers Cut greens	57 4,232 6,304 51 430 261 360 1,275 263 329 21,041 41,388 7857 13,688	291 1,080 226 4 6,187 621 426 225 4,134 3,621 2,332 8,782 9,382 151	78,473 1,114,307 530,490 2,416 1,626 26,728 73,325 151,075 4,310 7,259 250,926 24,372 2,457 85,386 4,855	2,400 27,243 4,465 17,685 22,465 5,170 1,446 11,875 15,712 19,704	362 263,877 119,059 0 2,430 292 963 1,525 2,114 1,665 230,119 12,720 5,277 19,499	81,583 1,410,739 660,544 20,156 33,138 33,072 76,520 165,975 26,533 32,578 512,578 82,020 41,893 166,814 24,085
WHERE SHIPMENTS COME	FROM					
California Florida Colombia Costa Rica Ecuador Guatemala Israel Mexico Netherlands Peru Others	0 0 0 374 1 1,762 29 55,287 3,270 0 3,872	0 0 0 3 0 1,333 77 33,469 0 2,592	122,842 1,969,841 77,841 67,788 21,662 9,295 16,445 47,633 24,658	0 0 2 17 853 30 47,465 18,008 131,778 0 15,132	579,602 0 592 1,371 1,133 0 2,941 48,353 15,131 146 10,793	579, 602 122, 842 2,005, 141 79, 603 69, 778 23, 454 51, 768 131, 020 200, 093 47, 779 57, 047
Domestic 3/ Imported Total	99,301 99,301	0 37,474 37,474	122,842 2,235,163 2,358,005	0 213,285 213,285	579,602- 80,460 660,062	702,444 2,665,683 3,368,127

1/ Includes Dallas, Nouston, San Antonio, and Weslaco ports. 2/ Miniature carnations converted to stems at 10 stems per bunch; gypsophila, 25 stems/bunch; pompon chrysanthemums, 6 stems/bunch; and statice, 12 stems/bunch. 3/ Includes only California and Florida ports listed.

Source: Agricultural Marketing Service, USDA, Based on APMIS inspections.

percent in 1988 to \$146 million. In addition, last year the U.S. imported about \$81 million worth of seeds in the flower, vegetable garden, and nursery categories, up 12 percent from 1987.

Although the U.S. is still a major net importer, U.S. exports of greenhouse and nursery products reached a record \$84 million last year. Canada buys most U.S. exports, but Canada's floral and nursery industries are expanding rapidly, hoping to export more to the U.S.

Cut flower growers in the U.S. want to ship more to Far Eastern markets and the EC. However, EC duties are high, and the EC has other trade barriers that restrict imports. The Netherlands, Spain, and Denmark are especially likely to continue expanding domestic production and exports, putting more pressures on world floriculture markets. Mexico and other Latin American countries are also expected to increase flower and plant exports, targeting mainly U.S. markets.

USDA To Allow New Plants In

After January 1990, USDA's Animal and Plant Health and Inspection Service will announce new types of plants, rootings, and cuttings that will be allowed to enter the U.S. About 50 new plant genera, or at least 1,000 new species, could be added to the list. U.S. growers are concerned about the plant diseases and insects that could be introduced by an influx of newly imported plant materials.

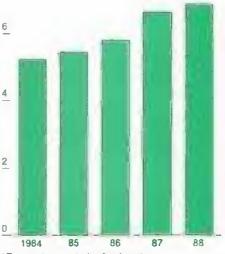
Additional imports of plants and propagative materials will diversify the products available in the U.S., but will also increase competition for domestic growers.

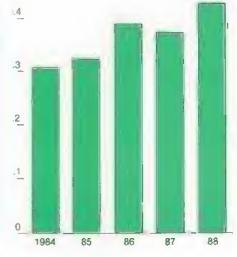
Carnation Imports Through Miami Are Big

In 1988, imports of roses were up 18 percent; foreign suppliers increased their share of the U.S. market to 36 percent. Domestic Growers' Receipts Higher For Greenhouse/Nursery Products...

\$ billion*







*Farm value; excludes food crops

Carnation imports increased 8 percent; foreign suppliers now serve over two-thirds of the U.S. market. Chrysanthemum imports fell owing to slower demand, but over half of the market is supplied by imports. Imports of tropical and "Dutch type" flowers have made big gains in recent years. Imports of these other cut flowers now account for 51 percent of the U.S. market.

USDA's Economic Research Service recently analyzed imported and domestic ornamental crops moving through 15 major ports of entry and shipping points. A total of 3.37 billion stems of cut flowers and greens moved into U.S. marketing channels last year. About 79 percent were imported. Colombia supplied 75 percent of the total imports, the Netherlands 8 percent, and Mexico 5 percent.

Miami was the dominant port of entry with 84 percent of the import volume, followed by New York City with 8 percent. Of the total available domestic

shipments and imported product, 42 percent consisted of camations, 20 percent of chrysanthemums, and 15 percent of roses.

Economic and Trade Factors May Dampen U.S. Expansion

Costs, mainly labor and energy inputs, continue to rise for U.S. growers, while prices received have been almost flat. When adjusted for inflation, producer prices have generally fallen, putting some U.S. growers in a cost-price squeeze and allowing foreign competitors to penetrate the U.S. and other markets.

The U.S. industry would benefit from:

- more automated, cost-effective production facilities;
- improved packaging, handling, and distribution;
- trade agreements to expand exports and open new markets;

- greater marketing efforts to boost domestic sales, especially nonoccasion purchases; and
- more biological, statistical, and economic research.

Potential for Growth Is Huge

Although consumer spending on flowers and plants is cooling off, there appears to be a large potential for growth. Consumption rates in the U.S. are relatively low compared with those in Europe. For example, in the U.S., per capita purchases of cut roses were 3.5 stems in 1988; camations, 5 stems; and chrysanthemums, only 2 stems.

The Dutch buy flowers more frequently than anyone else in the world. They purchase flowers on average 155 times each year, while people in the U.S. buy only 12 times annually.

As the world's top producer of flowers and plants, the U.S. could become a leading exporter. But to boost exports, U.S. growers need to cut production costs and improve marketing techniques. For example, despite also having relatively high wages, the Dutch are leading exporters because they use automated production processes and a low-cost auction marketing system.

Total world imports of cut flowers, cut foliage, and plants may have reached \$3.0 billion in 1988, and could hit \$3.5 billion by 1990. By value, the U.S. share of world floriculture trade is less than 1 percent. [Doyle Johnson (202) 786-1883]



World Agriculture and Trade

Program Boosted Wheat Exports

USDA's Export Enhancement Program (EEP) boosted U.S. wheat exports 10 to 30 percent in 1986/87 (June-May), according to several recent studies. But the studies also show that, despite the marked growth in wheat shipped with EEP support in 1987/88, wheat export increases due to the program that year were significantly less than in the previous year.

Estimates of the EEP's role in boosting U.S. wheat exports are subject to uncertainty, since they depend on assumptions about how competing countries and importers would have behaved had the EEP not been in place. However, the recent studies suggest that EEP is more effective in years when world stocks are high, U.S. supplies are large, and world competition is keen. This was the case in 1986/87.

But when world supplies are tight and importer demand is up, the EEP is less important. Aside from the EEP, lower U.S. support prices, the dollar's depreciation, and drought-reduced competitor supplies have increased U.S. exports since 1985.

The U.S. share has increased in specific wheat markets targeted under the EEP, particularly certain North African markets. The U.S. boosted its share of the Moroccan wheat market from about 50

percent to nearly 100 percent from 1985/86 to 1987/88. The U.S. share of the Algerian market rose from 25 percent in 1984/85 to over 70 percent in 1986/87. These gains have come at the expense of the EC, a subsidizing competitor.

From the program's inception in 1985 through mid-July this year, EEP bonuses valued at \$2.6 billion have been used to move \$8.4 billion worth of commodities into the international market.

How EEP Works

The EEP operates under a two-step, competitive bid process. Initially, USDA's Commodity Credit Corporation (CCC) announces that importers in a given country may make an offer for a specific quantity of a commodity eligible under the EEP.

Then, U.S. exporters compete to sell to the targeted country. The exporters arrange sales contingent on receiving a CCC bonus, and then bid against each other for the bonus. The CCC evaluates both the sales prices quoted to the importing country and the bonus bids. Exporting companies are awarded the bonuses if the offered prices and bonus quantities fall within predetermined ranges.

After exporting the commodity sold, the companies collect the bonuses. Bonuses are paid in the form of generic certificates that can be sold for cash or redeemed for CCC-held commodities (see the special article in the June Agricultural Outlook for more on certificates).

Bulk of Bonuses Moved Wheat

By value, about 85 percent of the EEP-assisted sales have moved wheat into the international market. Barley is next in importance, followed by wheat flour and vegetable oits. Smaller totals of frozen poultry, table eggs, rice, dairy cattle, sorghum, semolina, barley malt, and poultry feed have also been sold under the EEP.

Almost half of all U.S. wheat exports since the program began have involved EEP bonuses. EEP wheat sales began at 3.5 million tons in 1985/86 (June-May), then quadrupled in 1986/87, peaked at 25.5 million tons in 1987/88, and fell to 20.2 million in 1988/89. At the same time, total U.S. wheat exports rose from 24.6 million tons in 1985/86 to 41.6 mil-

lion in 1987/88, but dipped slightly in 1988/89 as the 1988 drought reduced exportable supplies and world imports fell.

More Than 44 Countries Have Bought Wheat Under EEP

In the program's first year, North African and Middle Eastern countries were the main wheat purchasers, and those areas now account for one-third of all EEP wheat sales. After the first year, the program expanded to other countries, such as the Soviet Union and China.

Almost half of all EEP wheat sales have been directed to the USSR and China. In 1987/88, the U.S. sold 8.8 million tons to the Soviet Union and 4.9 million tons to China. Sales to China increased in 1988/89, while relatively lower coarse grain prices encouraged Soviet importers to purchase more corn and sorghum (without EEP bonuses) than wheat under the EEP.

U.S. grain merchants have also sold wheat with EEP bonuses to many other countries in Latin America, Eastern Europe, West Africa, and Asia, although these nations have accounted for less than 20 percent of all EEP wheat sales.

Barley has accounted for only 6 percent of total EEP sales, but almost all barley exported from the U.S. in 1986/87 and 1987/88 (June-May) was sold under the EEP. In 1986/87, the first year of EEP barley exports, sales abroad increased almost 70 percent over the previous 5-year average. In 1987/88, total and EEP-supported barley exports declined slightly. In 1988/89, EEP barley sales dropped by a third, but non-EEP sales to countries such as Japan picked up. Top barley purchasers under the EEP have been Saudi Arabia, Algeria, and Israel.

EEP Covered Almost Half Of Flour Exports

For wheat flour, EEP shipments in 1986/87 and 1987/88 (June-May) accounted for almost half of total U.S. exports. Egyptian importers have purchased over 60 percent of the flour sold under the EEP since May 1985. Iraq and Yemen were the second and third leading destinations.

Commodity	Unit	1985/86	1986/87	1987/88	1988/89 2/	Total
wheat Flour 3/ Barley Sorghum Sorghum Vegetable oils Frozen poultry Rice Table eggs Dairy cattle	1,000 mt 1,000 mt 1,000 mt 1,000 mt 1,000 mt 1,000 mt 1,000 mt 1,000 dozen 1,000 head	5,300 1,200 900 6 0 43 23 0	14,388 901 3,359 106 135 25 95 28 21,500 52	26, 296 442 1,701 213 72 357 13 120 10,750	15,160 638 511 0 4 69 2 20 2,264	61,144 3,181 6,471 319 217 451 153 191 34,514

EEP Wheat Sales Have Been Targeted at EC Export Markets



U.S. exporters made their first vegetable oil sales under the EEP in the 1986/87 crop year (October/September). Sales of soybean, sunflowerseed, and cottonseed oil under the EEP topped 350,000 tons in 1987/88, but declined in 1988/89.

Nevertheless, in 1987/88, over 40 percent of U.S. sunflowerseed oil exports and over 20 percent of U.S. soybean oil exports were shipped under the EEP. Most of the soybean oil was sold to Indian and Tunisian importers, while Algeria purchased most of the sunflowerseed oil. About one-quarter of all U.S. vegetable oil exports were channeled through the EEP in 1987/88. [Karen Ackerman (202) 786-1821]

Third World Debt Cuts U.S. Farm Exports

Third World debt is one of the most serious constraints to agricultural trade in the 1980's. Estimates made by USDA's Economic Research Service suggest that the Third World debt problem has reduced U.S. agricultural exports by about \$3 billion a year since 1982.

The debt problem has proved to be highly intractable, and will probably limit growth in the world economy for years to come.

Before the debt problem, developing countries were the fastest-growing market for U.S. agricultural exports. During the 1970's, developing countries increased their purchases of U.S. farm products by nearly 11 percent per year, after inflation. By contrast, in the 1980's their purchases declined at an annual rate



of 4 percent. Even so, the developing world's share of U.S. agricultural exports has risen to over 40 percent.

Debt Problem Cuts Imports, Investment

The debt problem has constrained imports in two ways. First, governments' immediate response to a debt repayment problem is to reduce imports, freeing foreign exchange earned from exports for additional debt payments.

Second, in the longer term, debt payments compete with investment for national savings. Reduced investment lowers long-term economic growth, and thereby shrinks demand for U.S. agricultural products. Investment and economic growth have slipped substantially among debt-affected developing countries since the debt problem ballooned in 1982.

Between 1973 and 1981, U.S. agricultural exports to countries currently classified as "problem" debtors climbed an average 15.4 percent annually. However, between 1981 and the end of 1987, exports fell an average 10 percent annually. The share of total U.S. agricultural exports going to problem debtor countries rose to 14 percent in 1980, but has since fallen to 10 percent. Without substantial debt relief, these countries will become stagnant markets for U.S. farm products.

In the longer term, the debt crisis has lowered developing countries' incomes, in both absolute and relative terms. Real income growth per capita in all developing countries averaged only about 1 percent a year between 1980 and 1986, compared with more than 3 percent in the 1970's. As for problem debtor countries, real per capita income in the 1980's declined by 2.4 percent.

Capital Leaves Debt-Affected Countries

On average, the developing countries received net financing of more than \$30 billion a year between 1974 and 1981, but they have paid out \$30 billion in extra repayments per year since 1984. The consequence is that the most heavily indebted nations have seen domestic capital formation fall from an average of over 27 percent of national income during the 1970's to below 18 percent in the

1980's. Local investors, wary of their countries' shaky economies, have sent capital out of the Third World. The resulting slow economic growth has reduced demand for U.S. farm products.

The problem of debt constraints is not limited to U.S. agriculture. Real trade in all goods has fallen off. In 1980 dollars, the U.S. has been exporting 2 percent less every year, on average, to the developing world over this decade.

In contrast to the debt-constrained countries, the "four tigers" of East and Southeast Asia (Hong Kong, the Republic of Korea, Singapore, and Taiwan) have used their burgeoning export earnings to increase imports. U.S. agricultural exports to these countries increased 54 percent between 1986 and 1988, compared with 34 percent for all U.S. agricultural exports.

Brady Plan Could Defuse Crisis, But Recovery Will Be Slow

In the effort to solve the Third World debt problem, more flexible, market-oriented strategies have begun to appear. In March, U.S. Treasury Secretary Nieholas Brady proposed that international organizations, governments, and commercial banks become involved in a three-pronged effort: debt reduction, new funds, and economic policy reforms to stimulate growth in developing countries.

These strategies will help defuse the immediate debt crisis. These are only first steps, however, Third World debt will continue to be a serious trade impediment for some time.

The magnitude of developing countries' international debt—almost \$1.2 trillion—will continue to hamper attempts to achieve faster growth. In the last 2 years, voluntary debt reductions by private banks, mainly through discount sales in the secondary loan markets, have already reduced developing countries' debt by about \$24 billion.

For the debt-affected developing countries, debt service payments have exceeded 40 percent of export earnings in the 1980's. For all developing countries, debt service payments have exceeded 20 percent of exports during the 1980's, compared with only 12 percent for the 1970's. Rising debt-service payments are highly correlated with the declines in gross domestic capital formation in the 1980's.

Policy Reforms Needed To Spur Growth

With their long-term economic capacity reduced, debt-affected nations are attempting to get back on a growth path. The real per capita income in the most indebted countries is 7 percent less than it was at the beginning of this decade. Strong growth is needed just to regain the per capita income of 1980.

Highty Indebted Nations Clustered In Latin America, Africa



The developing countries could adopt trade, structural, fiscal, and monetary policies to promote growth. They cannot afford, in today's international economic environment, current policies such as food subsidies (which tend to exaggerate the need for food) and overvalued exchange rates (which implicitly tax farmers producing for international markets).

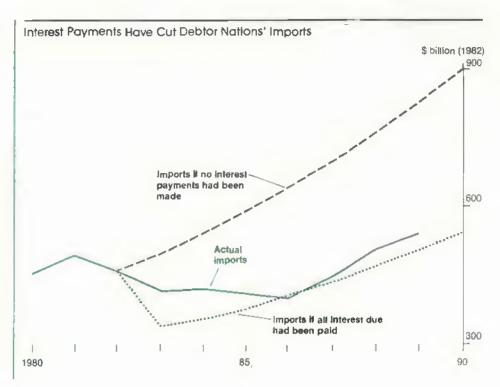
Reforms in the international trading system would improve the outlook for debt-affected countries. The policy-induced distortions that permeate world trade seriously hinder developing countries' export industries. Removing trade-distorting policies of developed countries will help facilitate the reform of developing countries' economies. Current discussions in the Uruguay Round of the General Agreement on Tariffs and Trade could move world trade practices a long way toward this objective. [Mauthew Shane (202) 786-1664]

What's Behind the \$3-Billion Estimate

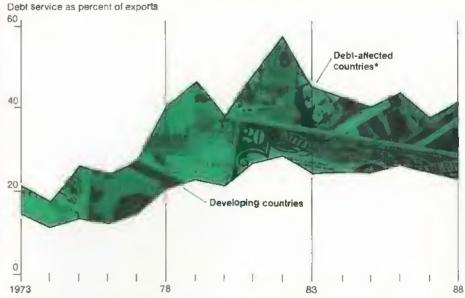
To estimate the effects of the Third World debt problem on U.S. agricultural exports, ERS compared the actual outcome of trade against a hypothetical alternative which removes the debt constraint. A trade model was built that took into account debt repayments as a constraint on imports and growth.

Separate scenarios were run to compare a fully debt-constrained Third World—where the countries cut imports and investment to keep current on all debt payments—against an alternative where the countries could continue unrestricted borrowing.

The simulations began with 1982, the year the debt crisis started. The actual history was then plotted against the simulations to estimate the difference between the unconstrained growth case and the actual performance of GNP, investment, and imports in the developing world. The changes in imports were then apportioned between agricultural and nonagricultural products, based on long-term trends.







*Having International debt over \$10 billion and suffering repayment problems after 1982. Includes Morocco, Nigeria. Philippines, Argentina, Brazil, Chile, & Mexico.

Farm Export Value Up, Volume Down

U.S. agricultural exports in fiscal 1989 are forecast to reach \$39 billion, the highest since 1982. In real terms (deflated by the U.S. consumer price index), export value is expected to be the highest since 1984. Export volume, however, is expected to decline. Smaller wheat, soybean, and soybean meal exports are expected to offset larger coarse grain exports.

With prices for grains and oilseeds well above a year earlier, export value is forecast up \$3.7 billion from 1988.

Although total U.S. agricultural exports remain well below the highs of 1980 and 1981, some regions, including Japan, other East Asian countries, and the Soviet Union, will import record amounts of U.S. farm products. However, in inflation-adjusted terms, the value of exports to Japan and the Soviet Union is expected to remain below the record.

Grain Exports Rising \$4 Billion

Greater grain exports account for much of the increased value forecast in fiscal 1989. Oilseed and product exports will probably fall \$1 billion, while livestock, horticultural, and tropical product exports are expected to gain about \$1 billion altogether. Grain export volume is expected to surpass 100 million tons for the first time since the early 1980's, but higher prices account for most of the expected \$4-billion jump in grain export value.

The volume of wheat exports likely will decline about 2 million tons in fiscal 1989, while value climbs from \$4.6 billion to \$6.2 billion. Export value has been boosted by higher world prices in the wake of last summer's drought-induced shortfalls in the U.S., Canada, and Argentina. More recently, poor production prospects for the U.S. winter wheat crop continue to bolster prices, and exportable supplies remain relatively low in most countries.

With wheat exports dropping, and U.S. rice exports forecast only slightly higher, larger coarse grain exports are almost entirely responsible for pushing U.S. grain export volume higher. Smaller supplies of coarse grains in Argentina, Thai-

land, and Eastern Europe account for some of the increase, with U.S. export volume expected to rise 9 million tons. With prices higher as well, coarse grain export value is likely to climb from \$5.2 billion in fiscal 1988 to \$7.5 billion this fiscal year.

Soviet Sales Already Surpass Last Year's Total

The most important factor boosting U.S. coarse grain export values is increased demand from the Soviet Union; Soviet purchases are expected to reach a record \$3.4 billion. Soviet grain purchases from the U.S. have already reached an all-time high this year, with sales as of mid-June totaling about 21 million tons, more than 30 percent above last year. The USSR will be the U.S.'s largest grain customer during fiscal 1989.

While Soviet purchases of U.S. wheat are expected to decline, Soviet purchases of U.S. corn are expected to nearly triple. Higher corn sales partly reflect:

- reduced Soviet coarse grain and forage production in 1988;
- tight corn supplies in competing countries and prices favoring U.S. corn over EC feed wheat and Canadian barley; and
- continued Soviet emphasis on boosting livestock production.

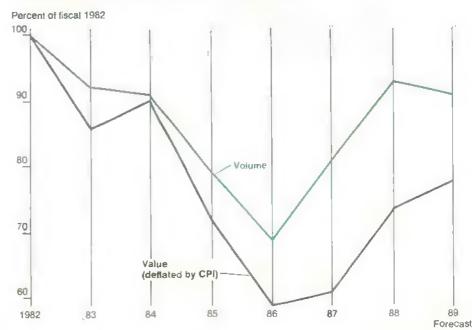
While U.S. agricultural sales to the Soviets are record high in current dollars and tonnage, exports were higher in 1979 in inflation-adjusted dollars. Soviet farm purchases from the U.S. are almost exclusively composed of bulk, low-value goods. Historically, prices of these and other unprocessed goods have lagged general price changes, particularly during the 1980's. Thus, while experts to the USSR will reach a record volume this year, their real returns to the U.S. economy will remain only near-record.

U.S. Soybean and Soybean Meal Exports Fall

Excluding eom gluten meal, exports of oilseeds and products are expected to reach \$6.8 billion in fiscal 1989, a \$1-billion decline from 1988. A 5.9-million-ton drop in soybean exports and a 1.4-million-ton reduction in soybean meal tonnage are forecast to more than offset higher prices. In inflation-adjusted dollars, oilseed and products export value is expected to be the smallest since 1972. In tonnage, these exports are expected to be the smallest since 1977.

World trade in soybeans and soybean meal combined is forecast lower during 1989, but competitors' exports are expected to rise. The U.S. likely will lose market share as it is squeezed between reduced demand in major markets, such as the EC, and record South American production.

Farm Exports Continue Rise in Value. But Volume Slips



U.S. Exports to EC Are Declining

During the first 8 months of fiscal 1989, U.S. oilseed and product exports to the EC fell \$639 million from a year earlier. Typically, 35-45 percent of all U.S oilseed and product exports are shipped to the EC, and reduced oilseed prospects account for most of the \$400-million decline expected in agricultural exports to the EC.

Export prospects have been hurt by large supplies of EC oilseeds, higher U.S. prices, and competition from grains within the EC. The EC livestock sector's demand for feedstuffs is down, too. While total EC consumption of oilseed meals could fall 4 percent, or 1.1 million tons, grain consumption is expected to grow faster than it has in 17 years.

Declining U.S. farm exports to the EC this year reversed 2 years of rising sales, which were driven mainly by high-value products. In addition to oilseed exports, meat exports to the EC are expected to fall during 1989. Technical factors hamper the U.S. beef industry's ability to certify internal organs as hormone free, so U.S. meat exports to the EC are now confined to carcasses.

However, import liberalization elsewhere and relatively favorable exchange rates are expected to boost U.S. meat exports to all destinations, driving U.S. animal product exports to a record \$6.4 billion. Similarly, liberalization, exchange rates, and continued strong foreign economic growth are expected to result in record exports of fresh and processed produce, \$4.1 billion compared with \$3.8 billion in fiscal 1988. In both animal and horticultural products, record highs will be achieved in real terms as well.

Much of the increase in high-value exports is going to Pacific Rim customers. With higher sales of beef and other high-value products to Japan, and greater prices for grains and soybeans, U.S. agricultural exports to Japan are expected to be up about \$600 million from fiscal 1988's record \$7.3 billion.

Exports to Most Customers Lower in Real Terms

As high-value exports hit record highs and bulk exports grow for the third consecutive year, the nominal value of all U.S. agricultural exports will return to the \$39 billion last recorded in fiscal 1982. However, inflation-adjusted U.S. exports in 1989 are forecast down 22 percent from 1982, although still up from last year.

Regionally, real export value is forecast to exceed 1982 for Japan, other East Asian countries, the Middle East, North Africa, the USSR, and Mexico. Much of the real decline since 1982 occurred in exports to Western Europe, but exports to Eastern Europe and most of Latin America fell as well, largely because they needed to use their foreign exchange to pay off their international debts.

Long-Term Constraints Face U.S. Exports

There are three serious constraints on the value of U.S. agricultural exports. They help explain why agricultural exports remain less than record while world trade and U.S. nonagricultural exports hit record highs. One is the Third World international debt problem (see above article). The second is the transformation of the EC from a major customer for grains into a competitor. The third is that unprocessed, undifferentiated products dominate U.S. agricultural exports.

Unless world agricultural trade liberalization proves more extensive than expected, the EC is unlikely to become a major U.S. customer again. And a rapid transformation of U.S. agricultural exports from largely bulk to largely high-value is also unlikely.

So, the ability of U.S. agricultural exports to surpass the record real levels achieved at the beginning of the 1980's will remain constrained by structural changes in world markets and the long-term decline in relative prices for primary products. [Stephen MacDonald (202) 786-1822]



Farm Finance

State Credit Programs Phasing Down

Federal credit subsidies to farmers are well known, but States have also subsidized farm borrowers. Driven by expectations of rising farm income, prices of farmland grew rapidly during the 1970's, making it increasingly difficult to enter farming. By the late 1970's, some States had responded with programs to help beginning farmers.

The onset of the farm financial crisis in the early 1980's led to a new set of problems and to more State programs. As farmland values and incomes fell sharply, agricultural lenders watched non-performing loans pile up; loan defaults and losses increased.

In dealing with these varying economic conditions, State governments either increased agricultural lending via incentives to private lenders, reduced the cost of credit to the borrower, or made direct loans. Many programs combined these subsidy types.

State Programs May Have Peaked At \$45 Million

State credit subsidies to farmers may have peaked at \$45 million in 1987, near the end of the farm financial crisis. While they have declined somewhat since then, a renewal of farm financial stress could again swell the States' burdens.

In 1987, the value of State programs was about 2 percent of the value of Federal farm credit subsidies offered through the Farm Credit System (FCS) and Farmers Home Administration (FmHA). States with the biggest programs include Hawaii, Alaska, Wyoming, Missouri, and Ohio.

State agricultural finance programs have operated differently than Federal ones. State programs have tended to be more diverse, have a fixed duration or sunset provision, or be low-budget. State legislatures have been mindful of the broad Federal credit programs available, as well as of State budget constraints (most States have effective balanced budget requirements).

Some States Lend Directly to Farmers

For direct loans to farmers, States adopted differing methods of funding. Some used direct appropriation from State revenues. This has largely ended, although total cost is as yet unknown because some loans have yet to mature.

A second method used a revolving loan fund, with the State providing the initial fund base. Repayment of principal and interest replenishes the fund for future loans. Additional appropriations may be needed to replace defaulted loans or to deepen fund capacity.

A third method used tax-exempt bonds. Several States adopted this approach for funding "beginning farmer" programs in the late 1970's and early 1980's.

However, the Federal Tax Reform Act of 1986 eliminated almost all activity in this area. For bond purchases, the act placed restrictions on qualifying for tax-exempt status and eliminated the interest deduction that made the bonds attractive to commercial banks, a major purchaser. For the States, this funding approach meant shouldering administrative expenses and borrower defaults, but to the Federal Government it spelled lower tax receipts.

Linked-Deposit Programs Are Popular

Programs that reduced farm borrowers' credit expenses were widely used during the farm financial stress of the 1980's. Perhaps the single most popular innovation was the linked-deposit program.

The State and a lending institution would make an agreement wherein the State would deposit its treasury funds at below-market rates, and the lender would make agricultural loans at preferential terms (generally a reduced interest rate). Linked-deposit programs have been popular because they require no direct outlays (although there are opportunity costs) and the lender assumes all default risk.

Several States step in and pay off farmers' debts. Some States pay the lender to defer farmers' payments. Interest does not accrue on the deferred payments. Sometimes the State negotiates with the lender to get the lender to bear some of the cost.

Other credit cost-reducing programs include add-ons and shared loans. For add-ons, the State adds to an interest buydown already provided by FmHA or the FCS, reducing the farmer's interest rate still further. Shared-loan programs are combinations of two loans, one from a private lender and a second from the State, the latter having preferential repayment terms.

State tax credits have been extended to lending institutions to encourage agricultural lending, or to reimburse farm loan losses. State-level loan guarantees or insurance have been extended to agricultural loans, so that default risk is transferred to the State. At least one State buys guaranteed FmHA loans made by private lenders and holds them to maturity.

Other Farmer Assistance Programs Not Linked to Credit Markets

Some States offer debt mediation, stressrelated crisis hotlines, training for farmers leaving agriculture, and free legal services. Several States have enacted farmland preservation initiatives, reflecting concern about disappearing farmland. These programs generally involve tax credits or concessions to preserve or conserve agricultural land.

Agricultural processors have benefited from some State programs. The focus has varied among incentives to locate processing facilities within the State, expand capacity, and promote diversified production.

Recognizing the importance of exports, some States have instituted programs for marketing agricultural products. States have hosted delegations of foreign governments. They have sponsored "new crops" programs to expand their agricultural export base by subsidizing crops that typically have not been grown in the State. Such programs have recently become more popular.

Some States also have very narrowly targeted farm credit subsidies. Examples include low-interest loans to buy computer equipment and software, or to construct energy-efficient farm buildings.

Programs Remain A Contingent Liability

Many State programs are being phased down as the farm financial crisis eases. States wish to reduce programs that involve significant current budget expenditures (e.g., direct loans), or that expose the State to unknown future costs (e.g., loan guarantees and insurance).

But even if the programs were to end soon, a legacy of potential costs will remain from outstanding loan guarantees and insured loans for some time to come. [Doug Duncan and Jim Mikesell (202) 786-1893]



Resources

About 2.5 Million Acres Added to CRP

The eighth signup for the Conservation Reserve Program (CRP), held this February, brought an additional 2.46 million contracted acres into the 10-year cropland retirement program. This brings total CRP enrollment to 30.59 million acres, compared to the goal of 40-45 million for 1990.

The Northern Plains region now accounts for 26 percent of all CRP enrollment. Of the acres contracted in the eighth signup, 41 percent came from the Northern Plains, partly because of new rules making fields with cropped wetlands eligible. Of the 156,000 acres of cropped wetlands enrolled in the eighth signup, 96,000 came from the Dakotas.

Eligibility Expanded

Beginning with the eighth signup, program eligibility was expanded to include cropland showing substantial scour erosion, which is caused by water overflowing stream and riverbeds. A total of 63,600 acres was enrolled in this category, more than half from Iowa and Mississippi.

Fields placed in the CRP under the new eligibility conditions must be planted with trees unless the Soil Conservation Service specifically determines otherwise. The proportion of land planted with trees in the eighth signup rose to 8 percent.

The share of land placed in wildlife uses rose to 14 percent. Land planted in grass slipped to 77 percent. Filter strip area in the eighth signup was 10,500 acres, bringing total filter strip enrollment to just over 40,000 acres.

For the Conservation Reserve as a whole, the share of land in trees is 6 percent and in wildlife 5 percent, while acres in grass account for 88 percent.

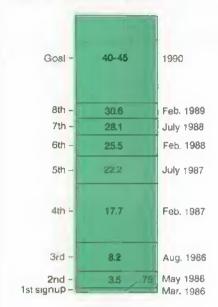
Averag**e Rental Payme**nt Up Again

The average annual rental payment rose to over \$51 per acre, up from \$42 for the first signup, held in 1986. The rise in the eighth signup did not result from increases in USDA maximum acceptable rental rates, which have not gone up since the sixth signup.

Signup for the Conservation Reserve Program Average Average rental eros i on reduction Signup Period Contracts Acres rate \$1,000 Million Tons/acre/yr. \$/acre/yr. 0.75 2.77 4.70 9.48 4.44 9.4 42.06 26 27 25 19 17 18 17 5/16/86 8/15/86 34.0 88.0 46.96 51.19 48.03 2/27/87 7/31-87 2/19/88 2/9/87 7/20/87 3.38 2.60 2.46 6 2/6/89 28.8 51.04 298.6 30.59 48.70 20 Aggregate Source: USDA, Agricultural Stabilization and Conservation Service.

30.6 Million Acres Are in the Conservation Reserve

Cumulative enrollment, million acres



Instead, continuing shifts in regional enrollment to areas where farmland is relatively more productive, and CRP rental payments higher, explain the rise. Proportionately less Southern Plains and Mountain States land was enrolled, compared with earlier signups. Since these regions have lower bid caps than other areas, the average rental payment for the country has gone up.

For land enrolled in the eighth signup, the average erosion reduction fell to 14 tons per acre per year, from 25 to 27 tons obtained in the first three signups. The most erodible land was enrolled in earlier signups; also, program rules have expanded eligibility to include less erodible lands.

The ninth CRP signup was scheduled to begin on July 17, 1989; results will be available in early winter. [Tim Osborn (202) 786-1434]



Special Article

Feed Industries Can Spur World Trade

A snations prosper, their consumers demand more meat. When the domestic meat market is small, imports supply this growing demand. As the domestic market grows, local entrepreneurs begin producing grain-fed chicken and pork in modern, factory-style units. Because meat is difficult and expensive to transport, local chicken and pork production can be profitable, even when the feed must be imported. Furthermore, because consumers usually prefer fresh meat, it often sells for a premium over imported, frozen meat.

The technologies behind confinement livestock units and feed manufacturing facilities, though costly, are readily transferred from other countries. As a result, many marketing opportunities arise for U.S. agribusiness exporters when livestock/feed sectors expand in developing countries.

How this technology transfer affects trade in meat, grains, and protein supplements varies with the agricultural resources of the importing country. If the country lacks cropland, higher domestic meat production increases the demand for imported feed ingredients. This has been the most common situation.

However, a few countries, such as Thailand and Brazil, have abundant land and proper climate for growing crops to feed to livestock. Their feed manufacturers and livestock producers can add value to surplus domestic crops by raising livestock for domestic use or, if there is a surplus, exporting the meat. But then the extra grain supply is not available for export.

Feed Manufacturing A Vital Link

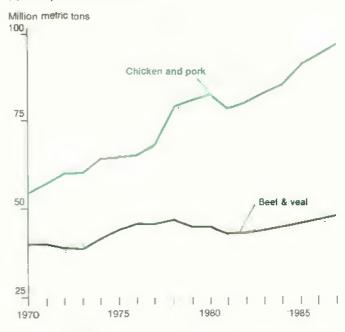
The mixed feed industry grew out of food processing firms' need to find some use for their byproducts. Major byproducts include wheat and corn bran and gluten from mills; grains and solubles from distilleries; and blood meal, meat meal, and bone meal from slaughterhouses. Such byproducts would have little value if they were not sold as feed; if they were discarded, disposal costs would significantly increase the price of the principal consumer products.

Before the feed industry developed in the U.S., byproducts were commonly dumped into nearby rivers, causing considerable pollution. Nutritionists then determined that the byproducts were high in protein, and that absence of protein in rations was limiting livestock growth. The need to process and mix these byproducts with feed grains created the feed industry. This industry has grown in the U.S. from a few firms mixing grain and processing byproducts in the 1890's to a major manufacturing industry.

In the 1950's, feeding costs dropped when manufacturers began to substitute relatively cheap soybean meal for expensive animal proteins and fishmeal as the primary protein supplement. Protein supplements are needed in commercial chicken and swine grain rations to supply essential amino acids.

Essential amino acids are those which the animal body cannot synthesize for itself, and which must be supplied directly in the diet. For example, corn is deficient in the acid types arginine and lysine. Fishmeal has a good balance of essential amino acids, but is expensive. Soybean meal is cheaper than fishmeal, but is deficient in other amino acids such as methionine and cystine. A balanced, economical, and efficient ration can be formulated by mixing these and other ingredients.

World Production of Chicken & Pork Far Outpaces Beef & Veal



Slightly more than half of all feed manufactured in the U.S. is poultry feed. Poultry feeds are manufactured by units within the vertically integrated firms of the poultry industry, not by a separate enterprise as is common for the rest of the livestock sector. Swine feed amounts to less than one fifth of all production, and cattle feeds make up little over a quarter. While most poultry feed is complete feed, more than two thirds of the swine feeds are concentrates. Cattle feeds are almost always concentrates.

Growing Meat Demand Spurs Technology Transfer

As entrepreneurs in the more prosperous Third World countries watched their countries become dependent on chicken meat imports during the 1970's, they saw opportunities to produce broilers locally. Local broiler production began growing rapidly with the transfer of integrated broiler production and feed manufacturing technology from the U.S. and Western Europe.

In the Middle East, oil income raised demand for chicken meat. At first, domestic broiler production was slow to expand. But in the early 1980's, entrepreneurs investing oil earnings in modern feed manufacturing and broiler facilities had increased domestic chicken meat production enough to begin moving their countries back toward self-sufficiency. As broiler production expanded, Middle Eastern imports of feed ingredients increased rapidly. Governments sometimes subsidized the cost of these ingredients to their broiler industries.

In the Far East, income from the export of manufactured goods boosted demand for poultry products. Domestic feed manufacturing and broiler production expanded using imported technology. Because these countries lack cropland, the feed for their expanding broiler industries is imported.

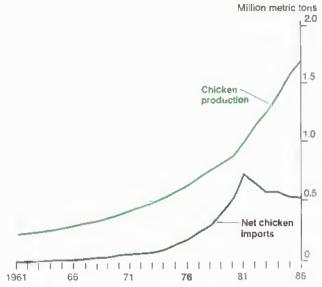
The transfer of feed manufacturing and integrated broiler production technology frees countries of crop production limits such as poor climate and lack of water in the Middle East, or lack of land in the Far East. There are limits, however, when land is very scarce, as in Singapore. In urban areas, environmental concerns over waste limit production growth.

As the major chicken-importing nations in the Third World acquired broiler (and swine) production technology, their reliance on grain imports rose. These developing countries have shifted from exporting 10 percent of their corn and sorghum production in the mid-1960's to importing 15 percent of total use today. This shift occurred even as their corn and sorghum production increased 2.8 percent annually.

EC and U.S. Fought "Chicken War"

A similar developmental cycle unwound in Western Europe after World War II. U.S. poultry meat exports to West Germany rose rapidly in the late 1950's and early 1960's as Germany recovered from the war. The U.S. sent 4.5 million pounds in 1956 under P.L. 480, the Food for Peace Program. By 1961, U.S. poultry meat exports to West Germany

As Third World's Chicken imports' Rose, Transferred Technology Let Damestic Output Soor



*Chicken imports of 8 largest chicken-importing countries of the Third World.

reached 140 million pounds, all paid for in U.S. dollars. West Germany's per capita consumption of poultry meat rose from 4.4 pounds per year to 12.5.

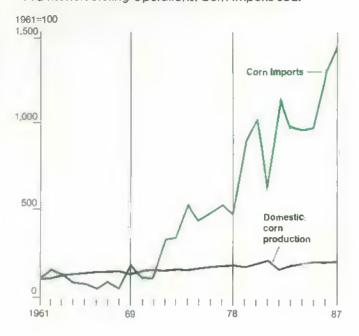
By then, however, broiler production was increasing rapidly elsewhere in the newly formed European Community (EC), in part through the arrival of U.S. technology. U.S. firms were exporting breeding stock, feed, equipment, and other items. Much of the technology came initially from research that had given the U.S. poultry industry an early trade advantage.

Because the goals of the EC include fostering trade among member nations, its Common Agricultural Policy (CAP) supported substituting poultry meat from member countries for U.S. exports. This led to the "Chicken War" between the U.S. and EC during the early 1960's. It was the first major incident in the now longstanding dispute between the U.S. and the EC about the international consequences of CAP.

U.S. broiler producers lost a market in West Germany, but U.S. grain and soybean farmers gained new markets; total EC demand for feed ingredients increased faster than production.

Broiler production continued to increase in the EC, outpacing consumption. By 1969, the EC was a net exporter of broiler meat, and now it is the world's leading exporter. At the same time, however, the CAP encouraged EC grain production in order to replace the grain imports supplying the EC feed manufacturing industry.

As Chicken-Importing Countries Start Their Own Feed-Manufacturing Operations, Corn Imports Soar



Japan Follows Early EC Pattern

Japan's story is different because agricultural land is more scarce. Transfer of broiler production and feed manufacturing technology began in the late 1950's. Per capita consumption rose from .4 pounds in 1960 to 28 pounds in 1987, outpacing local production.

As Japan became increasingly dependent on imports of chicken meat, imports of feed ingredients were growing to supply local entrepreneurs' broiler operations and feed manufacturing. Because Japan has little land for growing feed grains, the Japanese feed industry relies on imported grain (90 percent of use) and protein supplements.

Brazil and Thailand Become Chicken Exporters

Brazil and Thailand are now significant chicken-meat exporters. Their exports are based on modern broiler production technology and a feed industry supplied by locally grown feedstuffs. Their broiler meat exports were more than 95 percent of the Third World total in the mid-1980's. Brazil alone accounted for 85 percent of Third World exports.

Brazil began modernizing its poultry industry with imported technology in 1967. The country was responding to world market opportunities, its own huge land and labor resources to grow feed ingredients, and government policy to boost economic development and employment. By 1974, Brazil was exporting broiler meat. Exports rose to 20 percent of production by the early 1980's. They have fallen off recently, though, and fluctuate depending on markets in the Middle East and competition from EC and U.S. export subsidies.

Responding to similar signals, Thailand began modernizing its broiler and feed industries in 1970. Broiler production quickly outpaced consumption and Thailand began exporting in 1973, sometimes in competition with the U.S. Ninety percent of Thai exports are deboned chicken to Japan.

Chicken and Pork Gaining on Beef

The rapid geographic transfer of poultry, swine, and feed technology underlies a worldwide trend toward growing dependence on these animals for meat. The cost savings of production technologies have greatly lowered these meats' consumer prices relative to local beef and lamb.

The U.S. share of world chicken meat trade has declined from 31 percent in the early 1960's, before U.S. agribusiness began exporting its broiler technology, to 17 percent, but U.S. grain exports have climbed.

The U.S. broiler advantage declined because the technology was not dependent on climate and land, as are so many other agricultural technologies. As time passed, technology transfer linked livestock production and feed manufacturing into a global trading economy, from intermediate inputs through to the final product.

Unlike chickens and hogs, ruminant livestock (cattle, sheep, and goats) rely in most countries on grass and other roughages. Because approximately two-thirds of the world's agricultural land is pasture, ruminants will always play a major role in the world's food supply. About 60 percent of pasture land is not suitable for growing grains. If it were cropped, there would be excessive soil erosion, desertification, and other problems. Without ruminants, these lands could contribute little to world food supplies.

Forage Most Important for Ruminants; Grains and Byproducts for Pigs and Chickens

Animai	National g rouping	Grain	Pro- tein	By- products	Forage and other sources
		Perce	nt by	metabolize	d calories
RUMINANTS					
Cattle & buffalo	Developing Developed Centrally	2 19	0	2	96 75
	planned	50	1	4	75
Sheep & goata	Developing Developed Centrally	0 4	0	2 3	98 92
	pl anned	4	1	7	88
NONRUMINAN	its				
Swine	Developing Developed Centrally	20 78	3 11	26 11	51 0
	planned	41	3	34	55
Poultry	Developing Developed Centrally	59 70	13 22	20 8	8
	planned	61	9	12	18

Series: No. 323, 1984

Feed Use of Grains Is Increasing

A meat-based diet requires much more grain than a subsistence grain diet. In developed countries over two-thirds of grain is used for animal feed. A meat-based diet takes 1,500 to 2,000 pounds of grain per person per year. Among higher income developing countries, about one-quarter of the gram is fed to livestock. In contrast, low-income developing countries use less than 2 percent of their grain for livestock. A subsistence grain diet in a poor country may use only 400 to 500 pounds of grain per person per year.

As more and more people are able to afford animal products in their diet, the proportion of the world's grain fed to live-stock has increased, rising by 15 percent since the early 1960's. On average, more than 625 million tons of grain—almost 40 percent of world production—and 60 million tons of soybean meal were fed to livestock annually over the past 3 years.

Feed Industry Is Key To Agricultural Development

A modern feed industry seeks efficient use of the grains and oilseeds fed to livestock. In addition, by recycling byproducts, which might otherwise be pollutants, a feed industry helps conserve grain and protein supplements that are often imported with scarce foreign exchange.

The establishment of a feed industry in a developing country is also a critical link for exporters of feed manufacturing equipment. The required investment is substantial and varies with plant design. For example, pellicting the feed to improve handling and feed conversion raises the equipment investment an estimated 17 percent. If the feed is bagged rather than handled in bulk, estimated equipment investment rises 10 percent.

Centrally Planned Economies Are A Potentially Large Market

The situation in the People's Republic of China is similar to that of many developing countries. As incomes rise, much of the increase is spent to improve diets. Demand for feed-stuffs can easily outstrip production, and transportation problems can cause local shortages.

Rising animal-product consumption in the USSR and Eastern Europe requires a large livestock sector whose feed ingredients are partly Imported. According to the U.S. Feed Grains Council, however, the Soviet feed industry is badly outdated in technology and practices, making it difficult to increase production to meet demand. Should political developments warrant and foreign exchange become available, the centrally planned economies represent large potential markets for feed-industry technologies. [Gary Vocke (202) 786-1717]

Byproducts Are Critical Feed Ingredients	In the U.S.
	Million tons 1/
Grains, including corn, sorghum, barley, oats, and wheat 2/	141
Oliseed meals, including soybean and cottonseed meal	20
Grain byproducts, including brewer's grains, distiller's grains, corn gluten meal, hominy feed, wheat millfeeds and soybean millfeeds	' 12
Animal proteins, including meat meal tankage, meat and bone meal, fish meal, poultry byproduct meal, feather meal, and dried milk products	5
Other ingredients: fats, molasses, sugar, dehydrated alfalfa, sun-cured alfalfa, tiquid whey, urea, beet pulp, and citrus pulp	6
Minerals, including calcium, phosphorus, salt, and trace minerals	5
Vitamins, drugs, flavors, other micro ingredients, and premixes	1
Total	190
1/ Grains and byproducta fed in 1984. grain in complete feeds and grain mixed wand premixes on the farm.	2/ Includes ith concentrates
Source: Unpublished USDA data and The t Manufacturing Industry 1984, by Ash, Lin.	

Statistical Bulletin 768, ERS, USDA, 1988.

Complete Feeds, Concentrates, and Premixes

Feeds are classed as complete, concentrates, or premixes. Complete feeds are balanced rations in themselves, containing high levels of grain. Concentrates are feeds in which the grain has not yet been included; it is usually added at the farm. Premixes contain only minerals, vitamins, and other trace elements. Both grain and protein, usually soybean meal, must be added to the premix.

Statistical Indicators

Summary Data

Table 1.—Key Statistical Indicators of the Food & Fiber Sector _

		15	788				1989		
	11	111	٧1	Annual	I	11	111 8	LV F	Annual F
Prices received by farmers (1977=100) Livestock & products Crops	133 148 117	142 151 133	144 152 135	138 150 126	149 159 138	141 154 135	137 151 134		140 154 133
Prices pald by farmers, (1977=100) Production items Commodities & Services, interest, taxes, & wages	155 168	159 172	162 173	157 170	163 175	162 177			168 180
Cash receipts (\$ bil.) 1/ Livestock (\$ bil.) Crops (\$ bil.)	157 75 82	168 83 85	135 78 57	150 78 72	159 81 78	159 81 78	167 83 84		156-163 79-82 72-76
Market basket (1982-84=100) Retail cost Farm value Spread Ferm value/retail cost (%)	115 99 123 30	118 104 126 30	118 100 128 30	116 100 124 30	123 107 131 30	125 108 133 30	=======================================		==
Retail prices (1982-84=100) Food At home Away from home	117 115 121	119 118 123	120 119 123	118 117 122	123 122 125	125 124 127	125 124 128		
Agricultural exports (\$ bil.) 2/ Agricultural imports (\$ bil.) 2/	8.7 5.0	8.7 5.1	10.3 5.2	35.3 21.0	10.9	9.5 5.1	8.3 5.2	9.5 5.2	39.0 21.0
Commercial production Red meat (mil. (b.) Poultry (mil. (b.) Eggs (mil. doz.) Hilk (bit. (b.)	9,683 5,209 1,428 37,9	10,139 5,213 1,421 36.0	10,269 5,180 1,446 35.4	39,763 20,587 5,771 145.5	9,594 5,070 1,391 36,6	9,866 5,490 1,395 38,4	9,945 5,625 1,405 36,6	9,978 5,570 1,460 35.9	39,383 21,755 5,651 147.5
Consumption, per capita Red meet and poultry (lb.)	54.2	54.8	56.3	218.9	52.6	54.7	55.6	57.0	219.8
Carn beginning stocks (mil. bu.) 3/ Carn use (mil. bu.) 3/	7,635.2 1,801.3	5,835.5 1,576.9	4,259.1 2,109.4	4,881.7 7,698.7	7,071.6 1,868.5	5,203.9 1,787.0	3,419.0		4,259.1
Prices 4/ Choice steersOmaha (\$/cwt) Barrows & gilts7 mkts. (\$/cwt) Broilers12-city (cts./lb.) EggsNY Gr. A large (cts./doz.) Milkall at plant (\$/cwt)	72.81 45.90 55.6 53.3 11.43	66.92 44.24 66.1 72.9 11.87	70.14 38.66 57.9 67.3 13.26	69.54 43.39 56.3 62.1 12.22	73.85 40.78 59.4 78.6 13.07	73.85 41.84 67.1 74.5 12.20	69-73 43-47 63-67 73-77	70-76 36-42 51-57 69-75	71-74 40-43 60-63 73-76
WheatKansa® City MRW (\$/bu.) CornChicago (\$/bu.) SoybeansChicago (\$/bu.) CottonAvg. \$pot mkt. (cts./lb.)	3.38 2.29 7.01 61.5	3.86 2.84 8.38 58.5	4.11 2.75 7.91 52.3	3.64 2.46 7.36 57.8	4.36 2.75 7.59 56.1	4.44 2.76 7.39 60.9	12.60	13.55	12.85
	1981	1982	1983	1984	1985	1986	1987	1988	1989 F
Gross cash income (\$ bil.) Gross cash expense* (\$ bil.)	146.0 113.2	150.6 112.8	150.4 113.5	155.2 116.6	156.7 110.2	152.0 100.6	160.5 103.3	170 113	168-173 115-119
Net cash income (\$ bit.) Net farm income (\$ bit.)	32.8 26.9	37.8 23.5	36.9 12.7	38.7 32.3	46.6 32.2	51.4 37.4	57.1 46.3	58 44	50-5 5 4 7-5 2
farm real estate values 5/ Nominal Real (1977 dols.)	819 551	823 513	788 472	782 448	679 376	595 322	547 290	564 288	597 291

^{1/} quarterly data seasonally adjusted at annual rates. 2/ Annual data based on Oct.-Sept. fiscal years ending with year indicated.

^{3/} Dec.-Feb. first quarter; Mar.-May second quarter; June-Aug. third quarter; Sept.-Nov. fourth quarter; Sept.-Aug. annual. Use includes exports & domestic disappearance. 4/ Simple averages. 5/ 1981 & 1986-89 values as of February 1. 1982-85 values as of April 1. F = forecast. -- * not available.

Table 2.—U.S. Gross National Product & Related Data

		Annual				1988		1989
	1986	1987 \$ bill	1988 ion (quarte)	1	1.1	III justed at ar	IV nnual rates	I R
Gross national product Personal consumption	4,240.3	4,526.7	4,864.3	4,724.5	4,823.8	4,909.0	4,999.7	5,099.0
expenditures Durable goods Nondurable goods Clothing & shoes Food & beverages Services	2,807.5 406.5 943.6 167.0 501.0 1,457.3	3,012.1 421.9 997.9 178.2 526.4 1,592.3	3,227.5 451.1 1,046.9 186.4 551.5 1,729.6	3,128.1 437.8 1,016.2 180.5 535.9 1,674.1	3,194.6 449.8 1,036.6 183.2 546.3 1,708.2	3,261.2 452.9 1,060.8 188.4 558.9 1,747.5	3,326.4 464.0 1,073.9 193.6 564.9 1,788.5	3,378.1 459.9 1,092.7 194.0 577.9 1,825.5
Gross private domestic	665 0	712.9	766 5	763.4	758.1	772.5	772.0	788.9
Fixed investment Change in business inventories	665.9 650.4 15.5	673.7 39.2	766.5 718.1 48.4	698.1 65.3	714.4 43.7	722.8 49.7	737.2 34.7	748.5 40.4
Net exports of goods & services Government purchases of	-104.4	-123.0	-94.6	-112.1	-90.4	-80.0	-96.1	-79.3
goods & services	871.2	924.7	964.9	945.2	961.6	955.3	997.5	1,011.3
		1982 \$ bi	illion (quar	rterly data	seasonally	adjusted at	annual ra	tes)
Gross national product Personal consumption	3,721.7	3,847.0	3,996.1	3,956.1	3,985.2	4,009.4	4,033.4	4,077.5
expenditures Durable goods Nondurable goods Clothing & shoes Food & beverages	2,455.2 385.0 879.5 157.6 448.0 1,190.7	2,521.0 390.9 890.5 160.5 450.4 1,239.5	2,592.2 409.7 899.6 161.1 453.3 1,283.0	2,559.8 401.1 892.7 159.6 451.4 1,265.9	2,579.0 410.6 893.6 156.3 453.2 1,274.8	2,603.8 410.4 904.5 164.2 453.8 1,288.9	2,626.2 416.5 907.4 164.1 454.8 1,302.2	2,634.9 412.3 911.5 164.5 459.3 1,311.1
Gross private domestic investment Fixed investment Change in business inventories	643.5 628.1 15.4	674.8 640.4 34.4	721.8 679.3 42.5	728.9 662.9 66.0	715.1 679.7 35.3	726.1 686.6 39.5	717.1 688.0 29.1	730.2 694.8 35.5
Net exports of goods & services Government purchases of	-137.5	-128.9	-100.2	-109.0	-92.6	-93.9	-105.4	-85.9
goods & services	760.5	780.2	782.3	776.4	783.8	7 73 .5	795.5	798.2
GNP implicit price deflator (% change)	2.7	3.3	3.4	1.7	5.5	4.7	5.3	3.6
Disposable personal income (\$ bil.) Disposable per. income (1982 \$ bil.) Per capita disposable per. income (\$) Per capita dis. per. income (1982 \$)	3,019.6 2,640.9 12,496 10,929	3,209.7 2,686.3 13,157 11,012	3,471.8 2,788.3 14,103 11,326	3,375.6 2,762.3 13,760 11,260	3,421.5 2,762.2 13,919 11,237	3,507.5 2,800.4 14,231 11,362	3,582.5 2,828.4 14,497 11,445	3,680.6 2,870.8 14,861 11,592
U.S. population, total, incl. military abroad (mil.) Civilian population (mil.)	241.6 239.4	243.9 241.7	246.3 244.1	245.5 243.2	246.0 243.8	246.7 244.5	247.3 245.1	247.9 245.7
		Annual		1988		198	9	
	1986	1987	1988	May	Feb	Mar	Apr	May P
			Mont	hly data se	easonally ad	just ed		
Industrial production (1977-100) Leading economic indicators (1982-100) Civilian employment (mil. persons) Civilian unemployment rate (%)	125.1 132.1 109.6 7.0	129.8 139.6 112.4 6.2	137.2 142.5 115.0 5.5	136.1 141.5 114.4 5.6	140.5 145.4 116.9 5.1	140.6 144.6 117.1 5.0	141.4 145.5 117.1 5.3	141.4 143.8 117.2 5.2
Personal income (\$ bil. annual rate) Money stock-M2 (daily avg.) (\$ bil.) 1/ Three-month Treasury bill rate (%) AAA corporate bond yield (Moody's) (%)	3,531.1 2,811.2 5.98 9.02	3,780.0 2,909.9 5.82 9.38	4,062.1 3,069.4 6.69 9.71	4,021.4 2,999.8 6.27 9.90	4,318.2 3,069.2 8.48 9.64	4,355.7 3,078.7 8.83 9.80	4,376.7 3,081.3 8.70 9.79	4,389.7 3,072.8 8.40 9.57
Housing starts (1,000) 2/ Auto sales at retail, total (mil.) Business inventory/sales ratio	1,805 11.4 1.55	1,621 10.3 1.50	1,488 10.6 1.51	1,392 10.4 1.50	1,465 9.9 1.50	1,409 9.5 1.51	1,339 10.8 1.49	1,311
Sales of all retail stores (\$ bil.) Nondurable goods stores (\$ bil.) Food stores (\$ bil.) Eating & drinking places (\$ bil.) Apparel & accessory stores (\$ bil.)	121.2 73.9 24.6 12.1 6.7	125.5 76.9 25.3 12.7 7.1	134.4 83.6 27.6 13.1 7.0	134.0 82.1 27.4 12.8 6.6	139.4 86.4 29.0 13.7 7.0	139.5 86.6 29.0 13.6 7.0	140.9 F 87.1 F 29.3 F 13.3 F 7.2 F	87.1 29.4 13.3

^{1/} Annual data as of December of the year listed. 2/ Private, including farm. $R_1 = revised$. P = preliminary. -- = not available.

August 1989

Information contact: James Malley (202) 786-1782.

Table 3.—Foreign Economic Growth, Inflation, & Export Earnings

	Average 1975-79	1980	1981	1982	1983	1984	1985	1986	1987	1988	198 9 P	1990 F
					Anr	nual perd	cent char	nge				
Total foreign Real GNP CPI Export earnings	3.7 14.0 14.6	2.6 17.1 22.2	1.6 15.8 -2.7	1.7 14.7 -7.0	2.0 18.8 -2.6	3.2 22.8 5.6	3.0 22.1 1.9	2.2 11.8 11.0	3.1 16.6 18.5	4.0 34.4 13.5	3.1 69.4 9.8	3.1 57.5 9.3
Oeveloped less Ü.S. Real GNP CPI Export earnings	3.1 9.4 14.9	2.4 10.9 17.0	1.4 9.6 -3.3	1.1 8.0 -4.3	1.9 6.0 -0.5	3.4 5.1 6.3	3.3 4.7 4.6	2.4 2.8 19.4	3.1 2.6 17.6	4.0 2.9 12.5	3.1 4.0 11.0	2.6 3.4 9.1
Centrally planned Real GNP Export earnings	3.5 16.1	1.5 16.5	2.1 3.4	2.7 6.0	2.7 8.2	1.9 1.5	1.3 -5.1	3.2 7.3	1.4 6.7	3.3 5.2	2.5 5.6	2.6 8.1
Latin America Real GNP CPI Export earnings Africa & Middle East	5.1 53.7 12.8	5.4 64.0 30.1	0.9 67.9 5.3	-0.5 75.1 -10.1	-3.2 130.0 -0.8	3.5 177.9 6.7	3.7 184.9 -7.3	4.1 88.9 -14.2	3.0 140.5 8.9	0.2 318.0 16.4	-1.3 686.2 3.0	3.3 570.0 1.2
Real GNP CPI Export earnings Asia	6.4 16.4 13.2	1.3 24.6 37.9	0.0 17.3 -9.2	1.4 12.9 -19.7	0.1 16.7 -17.5	1.1 19.4 -6.1	0.0 11.2 -4.6	-1.2 11.7 -20.8	1.4 13.5 23.7	3.5 24.2 3.9	2.2 21.9 4.3	3.4 15.4 4.8
Real GNP CPI Export earnings	6.8 8.4 18.6	6.3 16.4 27.8	6.6 14.1 6.8	3.6 7.3 -0.3	6.6 7.7 3.4	5.4 8.5 13.1	4.0 5.2 -0.8	5.8 4.5 6.0	6.7 5.4 28.1	8.2 6.8 25.8	6.6 7.3 12.4	5.6 7.7 11.5

P = preliminary. F = forecast.

Information contact: Timothy Baxter (202) 786-1706.

Farm Prices

Table 4.—Indexes of Prices Received & Paid by Farmers, U.S. Average_

		Annual		1988			19	89		
	1986	1987	1988	June	Jan	Feb	Mar	Арг	May R	June P
					197	7=100				
Prices received All farm products All crops Food grains Feed grains & hay Feed grains Cotton Tobacco Oil-bearing crops Fruit. all Fresh market 1/ Commercial vegetables Fresh market Potatoes & dry beans Livestock & products Heat animal& Dairy product Poultry & eggs Prices paid	123 107 109 98 96 91 138 77 169 177 130 123 114 138 145 129	126 106 103 85 81 99 129 79 181 194 147 126 163 129	138 126 137 120 1177 95 138 181 194 142 150 168 126 118	139 129 139 127 125 103 126 120 188 203 120 109 115 147 168 116	149 140 160 137 133 89 145 177 199 185 163 174 138	148 138 161 137 132 88 143 112 176 1867 163 171 163 175 135	149 136 162 138 132 1432 158 1649 1464 1761 1310	147 140 161 139 131 97 140 166 176 176 176 177 127 139	149 141 160 138 130 97 144 201 216 145 223 171 126 147	1467 1522 1333 98 1466 197 2154 1513 1771 1244
commodities & services, interest, taxes, & wage fates Production items Feed Feeder livestock Seeder fertilizer Agricultural chemicals Fuels & energy Farm & motor supplies Autos & trucks Tractors & self-propelled machinery Other machinery Building & fencing Form services & cash rent Interest payable per acre on farm real estate debt Taxes payable per acre on farm real estate Wage rates (sea@onally md]ustad) Production items, interest, taxes, & wage rates	159 144 108 153 124 124 167 144 198 136 211 136 150	161 147 103 148 118 1161 161 165 176 185 185 187 140 137 151	170 157 1282 150 1365 163 148 215 187 1387 146 146 147 160		175 163 141 202 150 133 128 165 216 188 203 139 151 190 187 166			177 165 185 170 143 185 155 226 192 209 140 151 194 187		
Ratio, prices received to prices paid (%)2/ Prices received (1910-14=100) Prices paid, etc. (parity index) (1910-14=100) Parity ratio (1910-14=100) (%)2/	77 561 1, 093 51	79 578 1,110 52	82 631 1,167 54	83 633 55	85 682 1,207 57	85 677	85 679	83 672 1,220 55	84 680 	82 668

Information contact: National Agricultural Statistics Service (202) 447-5446.

Table 5.—Prices Received by Farmers, U.S. Average

		Annual 1,	1	1988				1989		
	1986	1987	1988	June	Jan	Feb	Mar	Apr	May R	June P
Crops All wheat (\$/bu.) Rice, rough (\$/cwt) Corn (\$/bu.) Sorghum (\$/cwt)	2.71	2.55	3.33	3.37	4.01	4.03	4.07	4.03	4.01	3.78
	5.04	4.59	7.79	7.69	6.47	6.59	6.47	6.66	6.76	6.85
	1.96	1.56	2.27	2.41	2.60	2.58	2.59	2.56	2.58	2.46
	3.11	2.56	3.66	4.13	4.09	4.05	4.03	4.16	4.02	3.98
All hay, beled (\$/ton)	61.60	62.40	78.30	77.40	91.20	93.70	98.10	104.00	104.00	94.80
Soybeans (\$/bu.)	5.00	5.08	7.21	8.18	7.69	7.41	7.51	7.29	7.21	7.00
Cotton, upland (cts./lb.)	54.8	59.6	57.2	62.0	53.9	52.9	56.3	58.9	58.8	59.1
Potatoes (\$/cwt) Lettuce (\$/cwt) Tomatoes (\$/cwt) Onions (\$/cwt) Dry edible beans (\$/cwt)	5.03	4.35	5.49	4.26	6.13	6.42	7.45	8.15	8.94	8.44
	11.90	14.70	15.20	10.70	18.50	12.60	13.60	9.07	7.48	15.50
	25.10	26.00	26.80	23.20	43.40	45.20	34.10	55.80	43.60	29.60
	10.90	12.50	9.99	8.52	12.30	10.80	9.70	10.90	9.58	10.70
	19.10	17.67	22.38	21.80	29.60	31.30	33.00	32.80	32.00	32.80
Apples for fresh use (\$\forall t\) Pears for fresh use (\$\forall t\) Oranges, all uses (\$\forall b\) 2/ Grapefruit, all uses (\$\forall b\) 2/	19.8	17.6	16.7	10.4	17.9	18.1	16.1	14.6	14.1	10.8
	369.00	227.00	347.00	527.00	286.00	292.00	328.00	290.00	448.00	493.00
	4.27	5.03	6.56	8.42	6.20	6.21	5.27	6.64	8.52	8.10
	4.29	4.96	5.39	3.36	3.72	3.34	3.36	3.28	4.05	4.85
Livestock Beef cattle (\$/cwt) Calves (\$/cwt) Hogs (\$/cwt) Lambs (\$/cwt) All milk, sold to plants (\$/cwt) Milk, manuf. grade (\$/cwt) Broilers (cts./lb.) Eggs (cts./doz.) 3/ Turkeys (cts./lb.) Wool (cts./lb.)	52.80 60.90 50.10 69.10 11.46 34.5 61.2 44.3	61.40 78.10 50.80 77.90 12.50 11.37 28.8 53.1 34.3	66.80 89.80 42.50 69.50 11.15 34.0 53.2 36.5	65.00 84.90 47.10 60.20 11.30 10.30 37.4 46.3 32.1	70.60 92.80 40.90 67.40 13.20 35.3 63.9 35.4	71.50 95.90 40.40 68.40 11.60 35.2 62.1 38.3 123.0	72.00 94.00 39.30 72.50 12.70 11.30 38.7 80.1 40.0 130.0	70.00 90.50 36.90 75.20 12.30 11.20 38.9 65.3 42.3 135.0	68.80 91.20 41.60 73.10 12.20 11.20 45.2 62.0 43.4 139.0	67.60 92.70 44.20 69.80 12.10 11.20 42.6 63.3 44.0 139.0

^{1/} Calendar year averages, except for potatoes, dry edible beans, apples, oranges, & grapefruit, which are crop years. 2/ Equivalent on-tree returns. 3/ Average of all eggs sold by producers including hatching eggs & eggs sold at retail. 4/ Average local market price, excluding incentive payments. P = preliminary. R = revised.

Producer & Consumer Prices

Table 6.—Consumer Price Index for All Urban Consumers, U.S. Average (Not Seasonally Adjusted) _

	Annual		1	988				1989			
	1988	May	0ct	Nov	Đес	Jan	Feb	Mar	Apr	May	
					1982-	84=100					
Consumer Price Index, all items Consumer Price Index, less food	118.3 118.3	117.5 117.6	120.2 120.2	120.3 120.3	120.5 120.4	121.1 120.8	121.6 121.3	122.3 122.0	123.1 122.9	123.8 123.5	
All food Food away from home Food at home Meats 1/ Beef & veal Pork Poultry Fish Eggs Dairy products 2/ Fats & oils 3/ Fresh fruit Processed fruit Fresh vegetables Potatoes Processed vegetables Cereals & bakery products Sugar & sweets Beverages, nonalcoholic	118.2 121.8 116.8 116.2 112.1 112.5 120.7 137.4 93.6 108.4 143.0 122.0 129.3 119.1 112.2 112.1 114.0 107.5	117.0 121.0 115.1 111.7 111.7 111.7 114.0 136.1 81.8 107.2 146.6 121.8 124.5 114.7 108.3 112.5 107.5	120.3 123.4 119.0 113.7 111.8 129.4 137.4 105.5 109.5 117.1 149.7 124.3 129.4 125.2 117.9 125.6 116.0 108.1	120.2 123.7 118.7 118.7 118.7 110.2 110.2 110.2 110.1 144.3 125.7 126.0 118.1 125.9 115.9	120.7 124.1 119.7 114.6 109.6 127.1 138.9 99.6 111.5 143.2 124.4 133.0 128.5 118.5 118.5 118.5	122.2 124.7 121.2 114.0 1116.0 1118.8 144.0 112.0 112.0 112.6 145.4 125.6 141.4 120.9 127.9 117.2	122.9 125.2 125.2 126.3 116.6 110.9 128.4 142.9 106.1 113.4 150.0 125.5 144.4 138.3 121.8 128.8 117.8	123.5 125.7 122.7 115.5 119.0 130.3 144.3 122.9 113.8 120.4 149.5 124.7 124.7 126.6 122.7 118.0 111.3	124.2 126.2 123.5 115.6 119.0 111.2 133.0 143.3 117.6 124.6 124.6 124.6 124.6 124.6 124.1	124.9 126.7 124.4 115.5 119.6 110.1 137.3 142.3 112.6 113.6 1158.1 125.2 164.0 124.9 131.5	
Apparel commodities less footwear Footwear Tobacco & smoking products Beverages, alcoholic	114.4 109.9 145.8 118.6	115.7 109.7 143.2 118.2	119.9 115.9 149.3 119.8	119.1 114.5 149.7 119.9	116.8 113.5 149.9 119.9	113.5 112.2 157.0 120.3	113.4 112.7 158.5 121.1	118.1 114.1 159.2 121.8	120.0 115.3 159.5 122.3	119.3 114.9 161.1 123.1	

^{1/} Beef, veal, lamb, pork, & processed meat. 2/ includes butter. 3/ Excludes butter.

Information contact: National Agricultural Statistics Service (202) 447-5446.

Information contact: Ralph Parlett (202) 786-1870.

Table 7.—Producer Price Indexes, U.S. Average (Not Seasonally Adjusted)_

	Annuat			1988		1989				
	1986	1987	1988	May	Dec	Jan R	Feb	Маг	Apr	Hay
	1982=100									
Finished goods 1/	103:2	105.4	108.0	107.5	110.0	111.1	1.11.7	112.2	113.0	114.2
Canned fruit & juice Frozen fruit & juice Fresh veg. excl. potatoes Canned veg. & juices Frozen vegetables Potatoes Eggs Bakery products Meats Beef & veal	107.2 112.9 97.8 91.9 111.0 103.0 99.2 104.0 104.0 93.9 116.6 93.9 116.7 124.9 104.9 103.3	109.5 112.0 103.7 95.0 115.3 113.3 99.1 103.5 107.3 120.1 187.6 118.4 100.4 95.5 104.9 103.4 140.0 101.6 108.6 103.9	112.6 112.7 105.7 199.1 120.1 129.9 100.4 108.3 108.5 114.1 88.6 126.4 99.9 101.4 151.7 102.2 111.4 151.7	111.2 113.6 92.3 119.9 130.9 130.5 106.5 106.5 100.5 102.2 102.2 102.8 100.4 105.6 150.8 111.7	115.1 119.9 111.6 100.8 122.4 128.6 96.7 117.3 112.5 148.1 100.3 130.6 99.0 104.8 87.6 115.3 151.8 106.2 118.5 118.6	116.7 110.9 109.2 101.1 122.5 126.7 93.4 118.7 113.2 148.1 127.3 132.0 102.8 107.4 116.3 151.6 107.1 119.0	117.3 110.0 133.1 101.1 120.7 122.0 119.7 114.3 178.7 102.4 108.4 108.4 108.4 108.5 115.0 161.8 119.1 115.7	118.4 106.4 123.8 103.0 122.1 119.8 111.0 120.3 114.9 162.0 135.8 133.0 103.7 119.9 161.4 106.3 119.4 118.4	117.8 104.5 119.3 102.9 119.6 107.1 119.4 115.3 152.7 1103.2 188.5 125.1 158.5 119.1	119.1 109.4 142.3 102.3 122.0 122.3 140.7 115.3 150.8 107.0 134.4 103.7 90.0 132.2 157.7 119.9 119.3
Consumer finished goods less foods Beverages, alcoholic Soft drinks Apparel Footwear Tobacco products	98.4 110.1 109.5 106.3 106.8 142.4	100.7 110.3 111.8 108.3 109.3 154.6	103.1 111.9 114.1 111.7 115.2 171.9	103.0 111.6 114.2 111.0 114.2 166.8	104.8 112.0 115.4 113.1 117.2 184.7	105.8 112.2 116.3 113.7 118.1 187.2	106.6 114.0 116.8 114.0 118.8 187.7	106.9 115.0 117.7 113.8 119.5 187.4	108.9 115.5 118.4 114.0 119.4 187.4	110.4 116.5 118.0 114.2 119.8 187.4
Intermediate materials 2/ Materials for food manufacturing Flour Refined Sugar 3/ Crude vegetable oils	99.1 98.4 94.5 103.2 84.8	101.5 100.8 92.9 106.4 84.2	107.1 105.9 105.7 108.6 116.8	106.3 104.0 97.2 106.6 114.1	109.5 108.3 113.2 113.7 108.4	110.6 110.4 114.8 115.8 108.9	110.9 109.8 114.3 114.4 103.1	111.6 111.4 116.1 116.1 109.9	112.3 111.5 113.7 116.1 107.4	112.7 112.4 115.9 117.0 114.7
Grains Livestock Poultry live	87.7 93.2 103.9 79.2 91.8 129.6 88.3 90.9 91.4 89.7 104.9	93.7 96.2 106.8 71.1 102.0 101.2 106.4 91.8 99.2 85.7 110.2	95.9 106.0 108.1 97.9 103.0 121.5 98.4 89.1 134.0 87.2	97.2 104.7 101.2 82.9 111.8 112.2 103.7 85.3 127.5 82.0	97.0 109.5 114.7 108.9 101.0 121.7 93.9 97.0 137.5 94.4 112.0	101.4 112.5 109.4 115.2 104.5 122.4 95.4 143.6 94.4 111.0	101.0 111.0 122.3 111.3 104.1 121.5 94.8 95.4 133.2 94.4 111.9	103.1 113.7 115.6 115.1 106.2 138.5 98.4 92.3 140.0 93.1 112.3	104.1 111.4 112.3 109.8 105.9 138.4 105.0 90.0 130.7 93.1	106.3 115.0 127.5 114.1 106.9 155.0 108.1 89.7 137.5 93.7 113.8
All commodities	100.1	102.8	106.9	106.5	109.0	110.5	110.8	111.5	112.3	113.1
Industrial commodities	99.9	102.5	106.3	106.1	108.1	109.6	110.0	110.6	111.7	112.4
All foods 6/	105.5	107.8	111.5	110.0	114.1	115.7	116.3	117.5	116.8	118.4
Farm products & processed foods & feeds Farm products Processed foods & feeds 6/ Cereal & bakery products Sugar & confectionery Beverages	101.2 92.9 105.4 111.0 109.6 114.5	103.7 95.5 107.9 112.6 112.6 112.5	110.0 104.8 112.8 122.9 114.6 114.3	108.1 102.2 111.2 120.4 113.1 114.1	112.9 108.9 115.0 126.5 117.3 115.8	115.0 112.0 116.6 128.2 117.8 116.5	114.6 110.5 116.8 129.4 118.1 117.6	116.2 113.4 117.8 129.1 118.7 118.7	115.1 110.5 117.5 129.3 120.0 119.4	116.9 114.9 118.1 130.8 119.6 119.5

^{1/} Commodities ready for sale to ultimate consumer. 2/ Commodities requiring further processing to become finished goods. 3/ All types & sizes of refined sugar. 4/ Products entering market for the first time that have not been manufactured at that point. 5/ Fresh & dried. 6/ Includes all raw, intermediate. & processed foods (excludes soft drinks, alcoholic beverages, & manufactured animal feeds). R = revised.

Information contact: Bureau of Labor Statistics (202) 523-1913.

Table 8.—Farm-Retail Price Spreads

		Ar	nual			1988			1989		
	1985	1986	1987	1988	May	Dec	jan	Feb	Mar	Apr	May
Market basket 1/ Retuil cost (1982-84=100) Farm value (1982-84=100) Farm-retail spread (1982-84=100) Farm value-retail cost (%) Meat products	104.1	106.3	111.6	116.5	114.9	119.5	121.5	122.3	122.9	123.6	124.7
	96.2	94.9	97.1	100.3	98.2	102.9	105.6	106.4	107.1	106.6	108.4
	108.3	112.5	119.4	125.3	123.9	128.4	130.0	130.8	131.4	132.7	133.5
	32.4	31.2	30.5	30.1	29.9	30.2	30.5	30.5	30.5	30.2	30.4
Retail cost (1982-84=100) farm value (1982-84=100) Farm-retail spread (1982-84=100) Farm value-retail cost (%) Pairy products	98.9	102.0	109.6	112.2	111.7	112.7	114.0	114.3	115.5	115.6	115.6
	91.3	94.3	101.2	99.5	103.2	97.7	102.7	102.6	103.7	103.4	103.2
	106.7	109.8	118.3	125.2	120.4	128.1	125.6	126.3	127.6	128.1	128.3
	46.8	46.8	46.7	44.9	46.8	43.9	45.6	45.5	45.5	45.3	45.2
Retail cost (1982-84=100) Farm value (1982-84=100) Farm-retail spread (1982-84=100) Farm value-retail cost (%) Poultry	95.2 110.5 44.2	103.3 92.6 113.3 43.0	93.3 117.5 42.3	108.4 90.4 124.9 40.0	107.4 86.5 126.7 38.6	111.4 97.3 124.4 41.9	112:0 97.9 126.1 41.7	113.4 97.7 127.9 41.3	113.8 94.3 131.7 39.8	114.1 93.0 133.5 39.1	113.8 91.9 134.0 38.7
Retail cost (1982-84=100)	106.2	114.2	112.6	120.7	114.0	127.1	128.8	128.4	130.3	133.0	137.3
farm value (1982-84=100)	105.9	115.1	93.8	110.4	105.2	114.4	112.8	113.9	124.3	125.9	143.5
Farm-retail spread (1982-84=100)	106.6	113.3	134.2	132.6	124.1	141.7	147.2	145.1	137.3	141.2	130.1
Farm value-matail cost (%)	53.3	53.9	44.6	49.0	49.4	48.2	46.9	47.5	51.0	50.7	55.9
Eggs Retail cost (1982-84=100) Farm value (1982-84=100) Farm-retail spread (1982-84a100) Farm value-retail cost (%)	91.0	97.2	91.5	93.6	81.8	99.6	112.0	106.1	122.9	117.6	112.6
	85.7	92.4	76.8	76.7	56.6	90.1	96.6	92.3	128.0	99.8	93.3
	100.4	106.0	117.9	123.9	127.1	116.7	139.7	130.9	113.7	149.5	147.2
	60.5	61.0	53.9	52.7	44.4	58.1	55.4	55.9	66.9	54.5	53.2
Cereal & bakery products Retail cost (1982-84=100) Farm value (1982-84=100) Farm-retail spread (1982-84=100) Farm value-retail cost (%) Fresh fruits	107.9	110.9	114.8	122.1	120.3	126.6	127.9	128.9	129.7	130.4	131.5
	94.3	76.3	71.0	92.3	87.3	101.0	102.0	101.0	103.1	103.3	104.3
	109.8	115.7	120.9	126.3	124.9	130.2	131.5	132.8	133.4	134.2	135.3
	10.7	8.4	7.6	9.3	8.9	9.8	9.8	9.6	9.7	9.7	9.7
Retail cost (1982-84=100) Farm value (1982-84=100) Farm-ratail spread (1982-84=100) Farm value-retail cost (%) Fresh vegetables	118.4	120.4	135.6	145.4	149.8	147.0	150.1	154.3	151.6	151.0	157.3
	110.8	103.8	113.9	113.3	121.2	110.3	105.0	101.5	92.3	82.8	94.9
	121.8	128.0	145.7	160.2	163.0	164.0	170.9	178.7	179.0	182.5	186.1
	29.6	27.4	26.5	24.6	25.5	23.7	22.1	20.8	19.2	17.3	19.1
Retail costs (1982-84=100) Farm value (1982-84=100) Farm-retail spread (1982-84=100) Farm value-retail cost (%) Processed fruits & vegetables	103.5	107.7	121.6	129.3	124.5	133.0	141.4	144.4	140.2	144.1	153.2
	93.1	90.0	112.0	105.8	90.6	108.5	120.4	144.5	120.1	142.7	148.6
	108.9	116.8	126.5	141.3	141.9	145.6	152.2	144.3	150.5	144.8	155.6
	30.5	28.4	31.3	27.8	24.7	27.7	28.9	34.0	29.1	33.6	32.9
Retail cost (1982-84=100) Farm value (1982-84=100) Farm-retail mpread (1982-84=100) Farm value-retail costs (%) Fats & olla	107.0	105.3	109.0	117-6	115.9	121.9	123.4	123.7	123.7	124.3	124.9
	117.7	101.5	111.1	136-5	133.9	136.8	137.5	134.4	133.5	131.9	132.0
	103.7	106.4	108.3	111-7	110.3	117.3	119.0	120.3	120.7	121.9	122.0
	26.2	22.9	24.2	27-6	27.5	26.7	26.5	25.8	25.7	25.2	25.1
Retail cost (1982-84=100)	108.9	106.5	108.1	113.1	111.2	118.5	119.6	120.5	120.4	121.6	121.6
Farm value (1982-84=100)	104.3	76.2	74.1	103.3	100.6	101.0	98.9	99.2	103.1	105.4	104.6
Farm-retail spread (1982-84=100)	110.6	117.6	120.6	116.7	115.1	124.9	127.2	128.3	126.8	127.6	127.8
Farm value-retail cost (%)	25.8	19.2	18.6	24.6	24.3	22.9	22.2	22.2	23.0	23.3	23.1
		Ant	nual		1	988			1989		
	1985	1986	1987	1988	May	0ec	Jan	Feb	Mar	Apr	May
Beef, Choice Retail price 2/ (cts./lb.) Net carcass value 3/ (cts.) Net form value 4/ (cts.) Farm-retail spread (cts.) Carcass-retail spread 5/ (cts.) Farm-carcass spread 6/ (cts.) Farm value-retail price (%) Pork	232.6 135.2 126.8 105.8 97.4 8.4	230.7 133.1 124.4 106.3 97.6 8.7	242.5 145.3 137.9 104.6 97.2 7.4	254.7 153.9 147.4 107.3 100.8 6.5 58	253.2 166.2 158.6 94.6 87.0 7.6	260.0 158.1 154.0 106.0 101.9 4.1	264.3 159.8 155.8 108.5 104.5 4.0	265.2 160.9 157.6 107.6 104.3 3.3	269.5 167.4 163.9 105.6 102.1 3.5 61	269.8 169.5 164.3 105.5 100.3 5.2 61	271.9 167.7 160.9 111.0 104.2 6.8 59
Retail price 2/ (cts./lb.) Wholesale value 3/ (cts.) Net farm value 4/ (cts.) Farm-retail spread (cts.) Wholesale-retail spread 5/ (cts.) Farm-wholesale spread 6/ (cts.) Farm value-retail price (%)	162.0 101.1 71.4 90.6) 60.9 29.7	178.4 110.9 82.4 96.0 67.5 28.5	188.4 113.0 82.7 105.7 75.4 30.3	183.4 101.0 69.4 114.0 82.4 31.6 38	183.6 106.4 76.1 107.5 77.2 30.3 41	177.4 97.8 66.0 111.4 79.6 31.8	181.1 94.3 66.7 114.4 86.8 27.6 37	179.3 92.7 65.2 114.1 86.6 27.5	179.7 91.8 63.3 116.4 87.9 28.5 35	179.5 88.6 59.0 120.5 90.9 29.6 33	177.1 95.5 68.4 108.7 81.6 27.1

1/ Retail costs are based on indexes of retail prices for domestically produced farm foods from the CPI-U published monthly by the Bureau of Labor Statistics. The farm value is the payment to farmers for quantity of farm product equivalent to retail unit, less allowance for byproduct. Farm values are based on prices at first point of sala a may include marketing charges such as grading a pecking for some commodities. The farm retail spread, the difference between the retail price a the farm value, represents charges for assembling, processing, transporting, distributing these foods. 2/ Estimated weighted average price of retail cuts from pork a choice yield grade 3 beef carcasses. Retail cut prices from BLS. 3/ Value of carcass quantity (beef) a wholesala cuts (pork) equivalent to 1 bb. of retail cuts; beef adjusted for value of fat a bone byproducts. 4/ Market value to producer for quantity of live animal equivalent to 1 ib. of retail cuts minus value of byproducts. 5/ Represents charges for retailing a other marketing services such as fabricating, wholesaling, in-city transportation. 6/ Represents charges made for livestock marketing, processing, a transportation to city where consumed.

Information contacts: Denis Dunham (202) 786-1870, Ron Gustafson (202) 786-1286.

Table 9.—Price Indexes of Food Marketing Costs

(See the June 1989 issue.)

Information contact: Denis Dunham (202) 786-1870

Table 10.—U.S. Meat Supply & Use

		Pro-						Consi	umption	Primary
	8eg. stocks	duc- tion 1/	Im- ports	Total supply	Ex- ports	Ship- ments	Ending stocks	Total	Per capita 2/ Pounds	market price 3/
				Mil	Lion pounds	s 4/			Pounds	
8eef 1986 1987 1988 P 1989 F	420 412 386 422	24,371 23,566 23,589 22,944	2,129 2,269 2,379 2,200	26,919 26,247 26,354 25,566	521 604 680 800	52 52 61 60	412 386 422 325	25,935 25,205 25,191 24,381	78.4 73.4 72.6 69.6	57.75 64.60 69.54 71-74
Pork 1986 1987 1988 P 1989 F	289 248 347 413	14,063 14,374 15,684 15,973	1,122 1,195 1,137 1,000	15,474 15,817 17,168 17,386	86 109 195 185	132 124 135 140	248 347 413 400	15,008 15,237 16,425 16,661	58.6 59.1 63.0 63.5	51.19 51.69 43.39 40-43
Veal 5/ 1986 1987 1988 P 1989 F	-11 7 4 5	524 429 396 369	27 24 27 0	562 460 427 374	5 7 10 0	1	7 4 5 4	550 449 411 369	1.9 1.5 1.4 1.2	60.89 78.05 89.79 89-92
Lamb & mutton 1986 1987 1988 P 1989 F	13 13 8 6	338 315 335 338	41 44 51 53	392 372 394 397	2 1 1	2210	13 8 6 7	375 360 386 389	1.4 1.3 1.4 1.4	70.26 78.09 68.84 65-68
Total red meat 1986 1987 1988 P 1989 F	733 679 745 846	39,296 38,684 40,004 39,624	3,319 3,533 3,594 3,253	43,348 42,897 44,343 43,723	613 722 886 986	187 179 198 201	680 744 846 736	41,868 41,251 42,413 41,800	140.2 135.3 138.4 135.8	===
Broilers 1986 1987 1988 P 1989 F	27 24 25 36	14,316 15,594 16,180 17,207	000	14,342 15,618 16,205 17,243	566 752 765 825	149 151 151 140	24 25 36 30	13,603 14,691 15,253 16,248	56.3 60.2 61.9 65.3	56.9 47.4 56.3 60-63
Mature chicken 1986 1987 1988 P 1989 F	144 163 188 157	627 650 638 628	0 0	771 814 826 784	16 15 26 20	3234	163 188 157 150	589 608 641 610	2.4 2.5 2.6 2.5	 # - + -
Turkeys 1986 1987 1988 P 1989 F	150 178 282 250	3,271 3,828 3,968 4,119	0 0 0 0	3,422 4,006 4,250 4,368	27 33 51 36	4 2 4	178 282 250 280	3,212 3,686 3,948 4,048	13.3 15.1 16.0 16.3	72.2 57.8 61.3 68-71
Total poultry 1986 1987 1988 P 1989 F	321 365 495 442	18,215 20,072 20,786 21,953	0	18,535 20,437 21,281 22,396	609 800 843 881	156 157 156 148	365 495 442 460	17,405 18,985 19,841 20,907	72.0 77.8 80.5 84.1	
Red meat & poult 1986 1987 1988 P 1989 F	1,054 1,044 1,240 1,288	\$7,511 58,756 60,790 61,577	3,319 3,532 3,594 3,253	61,883 63,333 65,624 66,119	1,223 1,521 1,729 1,867	343 336 354 349	1,045 1,240 1,288 1,196	59,273 60,229 62,254 62,707	212.3 213.2 218.9 219.8	_==

^{1/} Total including farm production for red meats & federally inspected plus nonfederally inspected for poultry.
2/ Retail weight basis. (The beef carcass-to-retail conversion factor was .74 during 1962-85. It was lowered to .73 for 1986 & to .71 for 1987 & later.) 3/ Dollars per cwt for red meat; cents per pound for poultry. Beef: Choice steers, Omaha 1,000-1,100 lb.; pork: barrows and gilts, 7 markets; veal: farm price of calves; lamb & mutton: Choice slaughter lambs, San Angelo; broilers: wholesale 12-city average; turkeys: wholesale NY 8-16 lb. young hens. 4/ Carcass weight for red meats & certified ready-to-cook for poultry. 5/ Beginning 1989 year trade no longer reported separately. P = Preliminary.
F = forecast. -- = not available.

Information contacts: Ron Gustafson, Leland Southard, or Mark Weimar (202) 786-1285.

Table 11.—U.S. Egg Supply & Use _

		Pro-					Hatch-		Consu	mption	
	Beg. stocks	duc- tion	Im- ports	Total supply	Ex- ports	Ship- ments	ing use	Ending stocks	Total	Per Capita	Wholesale price*
				Mill	ion dozen					No.	Cts./doz.
1984 1985 1986 1987 1988 1989 F	9.3 11.1 10.7 10.4 14.4 15.2	5,708.3 5,688.0 5,705.0 5,802.3 5,771.1 5,651.0	32.0 12.7 13.7 5.6 5.3 10.9	5,749.7 5,711.8 5,729.4 5,818.3 5,790.8 5,677.1	58.2 70.6 101.6 111.2 141.8 101.7	27.8 30.3 28.0 25.1 25.2 24.0	529.7 548.1 566.8 599.1 604.3 635.0	11.1 10.7 10.4 14.4 15.2 10.0	5,122.8 5,052.0 5,022.6 5,068.5 5,004.3 4,906.4	259.4 253.3 249.4 249.3 244.0 236.8	80.9 66.4 71.1 61.6 62.1 73-77

^{*} Cartoned grade A large eggs, New York. F = forecast.

Information contact: Maxine Davis (202) 786-1714.

Table 12.—U.S. Milk Supply & Use 1_____

	Pro- duc- tion	Farm Use	Commer Farm market ings	Beg. stocks	Im- ports	Total commer- cial supply	CCC net re- movals	Ending stocks	Oisap- pear- ance	All milk price 2/
				Bi	llion poun	ds				\$/cwt
1981 1982 1983 1984 1985 1986 1987 1988 P 1989 F	132.8 135.5 139.7 135.4 143.4 142.5 145.5	2.3 2.4 2.9 2.5 2.2 2.2	130.5 133.1 137.3 132.5 140.7 141.0 140.3 143.3	5.4.6.2.9.6.2.6.3.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	3.5.6.7.8.7.5.4.4.	138.5 141.0 144.5 140.5 148.4 148.3 146.9 150.3	12.9 14.3 16.8 8.6 13.2 10.6 6.7 8.8	5.4 4.2 4.6 4.2 4.3 4.3	120.3 122.1 122.5 126.9 130.6 133.5 135.6 137.1 139.0	13.77 13.61 13.58 13.46 12.51 12.51 12.54 12.24

^{1/} Milkfat basis. Totals may not add because of rounding. 2/ Delivered to plants & dealers; does not reflect deductions. F = forecast.

Information contact: Jim Miller (202) 786-1770.

Table 13.—Poultry & Eggs_____

Broilers Federally inspected slaughter, certified (mil. lb.)			Annual		19	88			1989		
Federally inspected slaughter, certified (mil. lb.)		1986	1987	1988	May	Dec	Jan	Feb	Mar	Apr	May
Wholesale price 12-city (cts./lb.) 56.9 47.4 56.3 56.6 58.8 58.0 58.1 62.1 63.5 70.4 Price of grower feed (\$/ton) 187 186 220 182 254 243 243 243 243 243 238 Broiler-feed price ratio 1/ 3.7 3.7 3.1 4.1 2.8 2.9 2.9 3.2 3.8 3.6 58.0 58.1 62.1 63.5 70.4 63.5 70.4 Price of grower feed (\$/ton) 8 roiler-feed price ratio 1/ 50.5 50.5 8 roiler-feed price ratio 1/ 50.5 8 roiler-type chicks hatched (mil.) 2/ 6 roiler-feed price ratio 1/ 50.5 8 roiler-feed price ratio 1/ 50.5 8 roiler-feed mil. b.) 3,133 3,717 3,903 331.3 272.8 254.1 248.1 301.3 268.8 356.6 Mholesale price, Eastern U.S., 8-16 lb. young hens (cts./lb.) 72.2 57.8 61.3 61.3 61.6 61.5 62.1 63.5 70.4 61.6 62.1 62.6 62.6 62.7 62.7 62.6 62.7 62.7 62.7	Federally inspected slaughter.	14 265 6	15 502 5	15 OB/ 0	1 347 3	1 308 /	1 304 0	1 270 1	1 473 /	1 222 5	1 527 2
Fedérally inspected slaughter, certified (mil. lb.) 3,133 3,717 3,903 331.3 272.8 254.1 248.1 301.3 268.8 356.6 Wholesale price, Eastern U.S., 8-16 lb. young hens (cts./(b.) 72.2 57.8 61.3 48.7 61.6 59.0 62.2 65.7 68.3 71.4 Price of turkey grower feed (\$/ton) 215 213 243 213 269 262 264 258 256 255 Iurkey-feed price ratio 1/ 4.1 3.9 3.0 2.8 2.8 2.7 2.9 3.1 3.3 3.4 Stocks beginning of period (mil. lb.) 150.2 178.2 282.4 370.7 303.5 249.7 262.5 263.1 267.3 298.5 Poults placed in U.S. (mil.) 225.4 240.4 242.0 25.6 20.4 23.1 23.7 26.9 26.4 28.6 28.6 28.6 28.6 28.6 28.6 28.6 28.6	Wholesale price 12-city (cts./lb.) Price of grower feed (\$/ton) Broiler-feed price ratio 1/ Stocks beginning of period (mil. lb.)	56.9 187 3.7 26.6	47.4 186 3.7 23.9	56.3 220 3.1 24.8	56-6 182 4-1 40.8	58.8 254 2.8 35.3	58.0 243 2.9 35.9	58.1 243 2.9 32.8	62.1 242 3.2 32.5	63.5 243 3.8 32.4	70.4 238 3.6 37.9
8-16 lb. young hens (cts./(b.) 72.2 57.8 61.3 48.7 61.6 59.0 62.2 65.7 68.3 71.4 Price of turkey grower feed (\$/ton) 215 213 243 213 269 262 264 258 256 255 255 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Federally inspected slaughter, certified (mil. lb.)	3,133	3,717	3,903	331.3	272.8	254.1	248.1	301.3	268-8	356.6
Farm production (mil.) 68,460 69,627 69,253 5,829 5,824 5,721 5,173 5,777 5,565 5,683 Average number of layers (mil.) 278 280 286 274 273 272 272 270 267 267 267 267 267 267 267 267 267 267	8-16 lb. young hens (cts./lb.) Price of turkey grower feed (\$/ton) Turkey-feed price ratio 1/ Stocks beginning of period (mil. lb.)	215 4.1 150.2	213 3.9 178.2	243 3.0 282.4	213 2.8 370.7	269 2.8 303.5	262 2.7 249.7	264 2.9 262.5	258 3.1 263.1	256 3.3 267.3	255 3.4 298.5
on farms) 248 248 251 21.2 21.3 21.1 19.0 21.4 20.7 21.3 Cartoned price, New York, grade A large (cts./doz.) 3/ 71.1 61.6 62.1 50.9 70.7 72.0 74.8 92.7 76.6 73.7 Price of laying feed (\$/ton) 174 170 202 176 221 217 214 214 211 210	farm production (mil.) Average number of layers (mil.)	68,460 278				5,824 273	5, 721 272	5,173 272	5,777 270		
large (cts./doz.) 3/ 71.1 61.6 62.1 50.9 70.7 72.0 74.8 92.7 76.6 73.7 Price of laying feed (\$/ton) 174 170 202 176 221 217 214 214 211 210	on farms)	248	248	251	21.2	21.3	21.1	19.0	21 - 4	20.7	21.3
	large (cts./doz.) 3/ Price of laying feed (\$/ton)	174	170	202	176	221	217	214	214	211	210
Stocks first of month Shell (mil. doz.) .72 1.16 1.29 .42 .78 .27 .36 .21 .48 .54 Frozen (mil. doz.) 10.0 9.8 13.1 13.2 13.6 14.9 14.9 14.4 11.2 11.6	Shell (mit. doz.)	10.0	1.16 9.8					.36 14.9	.21 14.4		
Replacement chicks hatched (mil.) 424 428 366 36.0 27.0 26.6 27.2 32.7 35.9 38.3	Replacement chicks hatched (mil.)	424	428	366	36.0	27.0	26.6	27.2	32.7	35.9	38.3

^{1/} Pounds of feed equal in value to 1 dozen eggs or 1 lb. of broiler or turkey liveweight. 2/ Placement of broiler chicks is currently reported for 12 States only; henceforth, hatch of broiler-type chicks will be used as a substitute. 3/ Price of cartoned eggs to volume buyers for delivery to retailers. P = preliminary.

Information contact: Maxine Davis (202) 786-1714.

100.0										
		Annual		19	988			1989		
	1986	1987	1988	May	Dec	Jan	Feb	Маг	Apr	May
Milk prices, Minnesota-Wisconsin, 3.5% fat (\$/cwt) 1/ wholesale prices	11.30	11.23	11.03	10.34	12.27	11.90	11.26	10.98	11.09	11.12
Butter, grade A Chi. (cts./lb.) Am. Cheese, Wis. assembly pt. (cts./lb.) Nonfat dry milk (cts./lb.) 2/	144.5 127.3 80.6	140.2 123.2 79.3	132.5 123.8 80.2	131.0 115.0 73.4	131.2 136.0 92.7	131.0 129.1 93.6	131.0 117.6 83.6	117.8 79.6	120.4 81.1	123.9 84.5
USDA net removals Total milk equiv. (mil. lb.) 3/ Butter (mil. lb.) Am. cheese (mil. lb.) Nonfat dry milk (mil. lb.)	10,628.1 287.6 468.4 827.3	6,706.0 187.3 282.0 559.4	8,856.2 312.6 238.1 267.5	1,226.7 42.4 35.0 53.6	448.7 19.8 3.8	1,563.2 73.8 3.5 0	1,471.6 67.0 8.5 0	1,156.5 54.4 3.0	1,398.8 64.1 7.0 0	1,468.3 66.4 9.3
Milk prod. 21 States (mil. lb.) Milk per cow (lb.) Number of milk cows (1,000) U.S. milk production (mil. lb.)	121,433 12 13,399 9,063 143,381 16	21,294 13 13,955 8,692 42,557 14	23,896 1 14,378 8,617 15,527 6/1	1,064 1 1,282 8,631 3,000 6/1			9,839 1 1,148 8,562 1,566 6/1	0,860 1 1,272 8,544 2,766 6/1	0,770 1; 1,263 8,535 8 2,656 6/13	1,095 1,304 8,516 3,037
Stock, beginning Total (mil. lb.) Commercial (mil. lb.) Government (mil. lb.) Imports, total (mil. lb.) Commercial disappearance	13,695 4,590 9,105 2,733	12,867 4,165 8,702 2,490	7,440 4,646 2,794 2,394	9,520 5,131 4,389 159	8,382 4,069 4,313 235	8,189 4,289 3,900 213	4.673	0,448 1 5,018 5,430 181	4.940	1,870 5,140 6,729
(mil. lb.)	133,498 13	35,657 13	57,187 1	1,553 1	1,418 1	0,392	9,748 1	1,680 1	1,051	
Butter Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. l)	1,202.4 205.5 922.9	1,104.1 193.0 902.5	1,207.5 143.2 909.8	108.0 240.4 60.6	112.0 226.2 94.6	129.0 214.7 45.5	124.7 246.6 47.8	135.7 314.4 86.9	124.7 341.9 55.6	122.5 379.1
American cheese Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. ll	2,798.2 850.2 0.) 2,382.8	2,716.7 697.1 2,437.1	2,756.6 370.4 2,570.0	253.1 375.6 215.4	235.0 282.5 205.6	225.6 293.0 216.2	208.7 288.4 189.1	231.9 293.5 228.5	236.2 284.6 228.8	247.0 288.7
Other cheese Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. l	2,411.1 94.1 b.) 2,684.9	2,627.7 92.0 2,880.2	2,815.0 89.7 3,034.1	235.1 92.7 250.0	251.5 105.9 278.2	230.9 104.7 239.3	210_8 111_4 225_2	256.5 111.4 274.2	236.4 110.9 245.6	247.9 117.0
Nonfat dry milk Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. l	1,284.1 1,011.1 5.) 479.1	1,056.8 686.8 492.9	978.5 177.2 733.1	106.6 171.4 50.0	75.8 50.4 69.9	87.1 53.1 71.9	85.6 66.3 66.5	95.7 84.4 91.0	99.8 88.3 86.5	99.8 100.8
Production (mil. gal.) 4/	4,248.6	1,260.7	1,246.9	116.7	79.1	80.5	86.6	108.0	104.3	122.6
		Annual		1987			88			89
	1986	1987	1988	IA	1	11	111	IA	I P	II P
Wilk production (mil. lb.) Milk per com (lb.) No. of milk cows (1,000) Milk-feed price retio 5/ Returns over concentrate 5/ costs (%/cwt milk)	143,381 13,260 10,813 1.73 9.23		145,527 14,213 10,239 1.58 9.05	34,811 3,385 10,285 1.89 9.97	36,197 3,519 10,285 1.74 9.34	37,871 3,697 10,244 1.51 8.33	36,025 3,526 10,218 1.46 8.53	35,434 3,471 10,208 1.59 9.86	36,647 3,611 10,148 1.56 9.63	38,044 3,763 10,110 1.47 8.80

1/ Manufacturing grade milk. 2/ Prices paid f.o.b. Central States production area, high heat spray process.
3/ Milk equivalent, fat basis. 4/ Ice cream, ice milk, & hard sherbet. 5/ Based on average milk price after adjustment for price support deductions. 6/ Estimated. P = preliminary. -- = not available.

Information contact: Jim Miller (202) 786-1770.

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Tab	10	ъ.	Э.	-	w	OO	ш

lable 15.—Wool									_	
		Annual			1988			1989		
	1986	1987	1988	May	Dec	Jan	Feb	Mar	Apr	May"P
U.S. wool price, 1/ (cts./lb.) Imported wool price, 2/ (cts./lb.) U.S. mili consumption, scoured	191 201	265 247	438 372	463 413	450 391	450 432	438 417	410 387	375 363	375 339
Apparel wool (1,000 lb.) 13 Carpet wool (1,000 lb.)	26,768 9,960	129,677 13,092	128,325 15,825	9,601 1,282	12,097	10,610 800	11,074 1,314	13,718	10,400	9,287 1,357

1/ Wool price delivered at U.S. mills, clean basis, Graded Territory 64's (20.60-22.04 microns) staple 2-3/4" & up. 2/ Wool price, Charleston, SC warehouse, clean basis, Australian 60/62's, type 64A (24 micron). Duty since 1982 has been 10.0 cents. P = preliminary.

Information contact: John Lawler (202) 786-1840.

		Annual		19	88			1989		
	1986	1987	1988	May	Dec	Jan	Feb	Mar	Apr	May
Cattle on feed (7 States) Number on feed (1,000 head) 1/ Placed on feed (1,000 head) Marketings (1,000 head) Other disappearance (1,000 head)	7,920 20,035 19,263 1,049	7,643 21,040 19,410 1,207	8,066 20,584 19,698 1,187	7,519 2,165 1,724 141	8,000 1,401 1,521 115	7,765 1,711 1,672 104	7,700 1,585 1,509 115	7,661 1,975 1,549 75	8,012 1,534 1,570 129	7,847 1,619 1,747 164
Beef steer-corn price ratio, Omaha 2/ Hog-corn price ratio, Omaha 2/	31.0 27.8	41.0 32.8	31.5 19.6	39.3 22.5	27.9 16.2	28.2 16.4	28.7 16.3	29.4 15.4	30.2 14.8	29.4 16.8
Market prices (\$/cwt) Slaughter cattle Choice steers, Omaha Utility cows, Omaha		2 44.83 2 78.74	46.55 90.23	97.66	225.63		72 .92 46.92 225.06 85.56	45.89 257.50	75.31 45.19 269.06 82.63	74.5 45.5 260.0 83.5
Slaughter hogs Barrows & gilts, 7-markets							40.91		37.06	42.3
Feeder pigs S. Mo. 40-50 lb. (per head)	45.6	2 46.69	38.88	46.85	29,17	35.25	34.18	39.55	34.74	34.2
Slaughter sheep & lambs Lambs, Choice, San Angelo Ewes, Good, San Angelo Feeder lambs	69.46 34. 78			72 .67 36 .38		6813 4813	68.83 53.28	70.90 47.55	78.17 42.45	73.56 38.95
Choice, San Angelo	73.14	102.26	90.91	90.63	84.83	84.38	97.17	95.30	88.06	78.1
Wholesale meet prices, Midwest Choice steer beef, 600-700 lb. Canner & cutter cow beef Pork loins, 14-18 lb. 4/ Pork bellfes, 12-14 lb. Hams, skinned, 14-17 lb.	88.98 71.3 104.78 65.88 80.0	83.70 3 106.23 63.11	87.77 97.49 41.25	111.70 89.88 112.75 46.09 67.70	90.03 93.61 34.82	107.30 91.23 89.35 36.91 64.61	107.98 96.93 90.97 31.41 67.11	112.43 92.17 91.77 30.91 63.00	113.84 89.77 91.59 25.49 61.60	112.66 89.74 99.95 29.1 63.30
All fresh beef retail price 5/	• 1		224.35	221.50	232.97	234.05	233.94	238.50	237.33	238.3
Commercial slaughter (1,000 head)* Cattle Steers Heifers Cows Bulls & stags Calves Sheep & lambs Hogs	37,288 17,516 11,097 7,961 714 3,408 5,635 79,598	17,443 10,906 6,610	35,0 72 17,341 10,755 6,334 642 2,504 5,293 87,738	2,908 1,510 850 494 56 179 427 6,884	2,774 1,354 816 554 49 211 460 7,946	2,789 1,327 850 561 51 203 428 7,332	2,568 1,261 808 457 42 181 425 6,791	2,822 1,400 840 532 50 200 519 7,763	2,644 1,336 763 493 52 158 409 7,380	3,024 1,521 907 540 56 163 447 7,480
Commercial production (mil. lb.) Beef Yeal Lamb & mutton Pork	24,213 509 331 13,998	23,405 416 309	23,419 387 329 15,614	1,918 30 27 1,231	1,872 32 29 1,425	1,896 32 27 1,310	1,744 28 27 1,204	1,889 31 33 1,373	1,757 27 26 1,321	1,998 29 28 1,341
		Annual			198				1989	
	1986	1987	1988	1	11	111	IV	1	11	111
Cattle on feed (13 States) Number on feed (1,000 head) 1/ Placed on feed (1,000 head) Marketings (1,000 head) Other disappearance (1,000 head)	9,754 23,583 22,856 1,236	9,245 24,894 22,991 1,379	9,769 24,353 23,339 1,375	9,769 5,824 5,823 385	9,385 5,893 5,859 418	9,001 5,986 6,171 225	8,591 6,650 5,486 347	9,408 6,212 5,598 7/	9,678 6,088	* * *
Hogs & pigs (10 States) 6/ Inventory (1,000 head) 1/ Breeding (1,000 head) 1/ Market (1,000 head) 1/ Farrowings (1,000 head) Pig crop (1,000 head)	41,100 5,258 35,842 8,223 63,835		42,995 5,510 37,485 9,316	2,995 5,510 37,485 2,123 6,489	5,520 35,825 2,578	44,065 4 5,630 38,435 3 2,359 18,007 1	5,000 5,460 9,540 2,261 7,216	43,210 4 5,335 37,875 3 2,109 16,439 1	1,605 4 5,420 6,185 3 2,535 7 9,900	3,690 5,560 58,130 2,359

1/ Beginning of period. 2/ Bushels of corn equal in value to 100 pounds live weight. 3/ Per head starting September 1988. 4/ Prior to 1984, 8-14 lb.; 1984 & 1985, 14-17 lb.; beginning 1986, 14-18 lb. 5/ New series estimating the composite price of all beef grades & ground beef sold by retail stores. This new series is in addition to, but does not replace, the series for the retail price of Choice beef that appears in table 8. 6/ Quarters are Dec. of preceding year-Feb. (1), Mar.-May (11), June-Aug. (111), and Sept.-Nov. (1V). 7/ Intentions. *Classes estimated. -- = not available.

information contacts: Ron Gustafson or Leland Southard (202) 786-1285.

August 1989

Table 17.—Supply & Utilization^{1,2}_

		Агеа					Feed and	Other domes-				
	Set aside 3/	Planted	Karves - ted	Yield.	Pröduc- tion	Total supply 4/	resid- ual	tic use	Ex- ports	Total use	Ending stocks	Form price 5/
		Mil. acres		Bu./acre				Mil. b	w.			\$/bu.
Wheat 1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	18.3 18.8 20.2 27.9 30.1	79.2 75.6 72.1 65.8 65.5 76.8	66.9 64.7 60.7 56.0 53.2 63.5	38.8 37.5 34.4 37.7 34.1 33.4	2,595 2,425 2,092 2,107 1,811 2,117	4,003 3,866 4,018 3,945 3,096 2,832	405 279 413 288 210 175	749 767 780 804 830 840	1,424 915 1,004 1,592 1,440 1,225	2,578 1,961 2,197 2,684 2,480 2,240	1,425 1,905 1,821 1,261 616 592	3.39 3.08 2.42 2.57 3.74 3.75-4.1
		Mil. acres		Lb./acre				Mil.	cut (rough			\$/cwt
Rice 1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	1.24 1.48 1.51	2.83 2.51 2.38 2.36 2.93	2.80 2.49 2.36 2.33 2.90	4,954 5,414 5,651 5,555 5,511	138.8 134.9 133.4 129.6 159.5 153.0	187.3 201.8 213.3 184.0 194.6 189.6		6/60.5 6/65.8 6/77.7 6/80.4 6/86.2 6/89.6	62.1 58.7 84.2 72.2 76.0 74.0	122.6 124.5 161.9 152.6 162.2 163.6	64.7 77.3 51.4 31.4 32.4 26.0	8.04 6.53 3.75 7.27 6.50-7.0 7.00-8.5
	1	Mil. acres	8	Bu./acre				Mil.				\$/bu.
Corn 1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	3.9 5.4 13.5 25.6 23.6	80.5 83.4 76.7 65.7 67.6	71.9 75.2 69.2 59.2 58.2	106.7 118.0 119.3 119.4 84.6	7,674 8,877 8,250 7,072 4,921 7,450	8,684 10,536 12,291 11,958 9,185 9,283	4,079 4,095 4,714 4,738 4,000 4,200	1,091 1,160 1,192 1,229 1,255 1,300	1,865 1,241 1,504 1,732 2,100 1,950	7,036 6,496 7,410 7,699 7,355 7,450	1,648 4,040 4,882 4,259 1,830 1,833	2.63 2.23 1.50 1.94 2.50-2.6 1.75-2.6
Constant	1	Mil. acres	8	Bu./acre				mil.			l.	\$/bu.
Sorghum 1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	3.0 5.2 5.8	17.3 18.3 15.3 11.8 10.4	15.4 16.8 13.9 10.6 9.1	56.4 66.8 67.7 69.7 63.8	866 1,120 938 739 578 700	1,154 1,420 1,489 1,483 1,240 1,105	539 664 535 564 475 525	18 28 12 25 25 35	297 178 198 231 300 250	854 869 746 820 800 810	300 551 743 663 440	2.32 1.93 1.37 1.70 2.25-2.3 1.55-1.9
		Mil. acres	P	Bu./acre				Mil. I	bu.			s/bu.
Barley 1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	.5 2.1 4.0 4.8	12.0 13.2 13.1 11.0 9.7 9.3	11.2 11.6 12.0 10.1 7.5 8.7	53.4 51.0 50.8 52.7 38.6 51.3	599 591 611 530 291 445	799 848 944 879 623 652	304 333 298 258 161 200	170 169 174 174 180 180	77 22 137 126 85 75	551 523 608 558 426 455	247 325 336 321 197 197	2.29 1.98 1.61 1.81 2.79 1.85-2.6
	1	Mil. acres		Bu./acre				MECLI	bu.			s/bu.
0ats 1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	.1 .6 1.3 1.2	12.4 13.3 14.7 18.0 13.9	8.2 8.2 6.9 6.9 5.6	58.0 63.7 56.3 54.0 39.1	474 521 386 374 219 388	689 728 603 553 396 536	433 460 395 361 196 300	74 82 73 79 100 110	1 2 3 1 1 2	509 544 471 441 297 412	180 184 133 112 98 124	1.67 1.23 1.21 1.56 2.61 1.55-1.9
Soybeans_	1	Mil. acres	B	Bu./acre				Mit. I			£4m	\$/bu.
1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	0	67.8 63.1 60.4 58.0 58.9 61.3	66.1 61.6 58.3 57.0 57.4 60.2	28.1 34.1 33.3 33.7 26.8 32.4	1,861 2,099 1,940 1,923 1,539 1,950	2,037 2,415 2,476 2,359 1,841 2,075	7/93 7/86 7/104 7/81 7/96 7/95	1,030 1,053 1,179 1,174 1,070 1,115	598 740 757 802 550 600	1,721 1,879 2,040 2,057 1,716 1,810	316 536 436 302 125 265	5.84 5.05 4.78 5.88 7.35 4.75-6.
								Bit. U				/ Cts./lb.
Soybean oil 1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	 			9) 9,	11,468 11,617 12,783 9/ 12,974 9/ 11,768 12,385	12,209 12,257 13,745 14,895 14,060 14,500		9,917 10,053 10,833 10,930 10,500 11,000	1,660 1,257 1,187 1,873 1,300 1,400	11,577 11,310 12,020 12,803 11,800 12,400	632 947 1,725 2,092 2,260 2,100	29.50 18.00 15.40 22.65 21.50 19.50-23.
								1,000 to)/ \$/ton
Soybean meal 1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	77		 	::	24,529 24,951 27,758 28,060 24,897 26,500	24.784 25.338 27.970 28.300 25.050 26,800		19,480 19,090 20,387 21,276 19,500 21,000	4,917 6,036 7,343 6,871 5,250 5,500	24,397 25,126 27,730 28,147 24,750 26,500	387 212 240 153 300 300	125 155 163 222 230 140-180

See footnotes at end of table.

Table 17.—Supply & Utilization, continued

	Set aside 3/	Area Planted	Narves- ted	Yield	Production	Total supply	Feed and resid- ual	Other domes- tic use	Ex- ports	Total Use	Ending stocks	Farm price 5/
Cotton 11/)	til. acres		Lb./acre				Mil. bale	s			Cts./lb.
1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	2.5 3.6 3.4 3.2 1.6	11.1 10.7 10.0 10.4 12.5	10.4 10.2 8.5 10.0 11.9	600 630 552 706 619	13.0 13.4 9.7 14.8 15.4 12.0	15.8 17.6 19.1 19.8 21.2		5.5 6.4 7.6 7.5 7.5	6.2 2.0 6.7 6.6 6.1 7.8	11.8 8.4 14.1 14.2 13.6 15.3	4.1 9.4 5.0 5.8 7.7 4.5	58.70 56.50 52.40 64.30 55.50

*July 13, 1989 Supply and Demand Estimates. 1/ Marketing year beginning June 1 for wheat, barley, & oats, August 1 for cotton & rice, September 1 for soybeans, corn, & sorghum, October 1 for soymeal & soyoil. 2/ Conversion factors: Hectare (ha.) * 2.471 acrs, 1 metric ton = 2204.622 pounds, 36.7437 bushels of wheat or soybeans, 39.3679 bushels of corn or sorghum, 45.9296 bushels of barley, 68.8944 bushels of oats, 22.046 cut of rice, and 4.59 480-pound bales of cotton. 3/ Includes diversion, PIK, & screage reduction programs. 4/ Includes imports. 5/ Market average prices do not include an allowance for loans outstanding & Government purchases. 6/ Residual included in domestic use. 7/ Includes seed. 8/ Average of Crude soybeam oil. Decatur. 9/ Includes 196 million pounds in imports for 1987/88 & 300 million in 1988/89. 10/ Average of 44 percent, Decatur. 11/ Upland & extra long staple. Stock estimates based on Census Bureau data, resulting in an unaccounted difference between supply & use estimates & changes in ending stocks. -- * not available.

Information contact: Commodity Economics Division, Crops Branch (202) 786-1840.

Table 18.—Food Grains

	******	Marketir	ng year 1/		1988			1989		
Wholesale prices	1984/85	1985/86	1986/87	1987/88	May	Jan	Feb	Mar	Apr	May
Wheat, Wo. 1 HRW, Kansas City (\$/bu.) 2/ Wheat, DNs,	3.74	3.28	2.72	2.96	3.20	4.40	4.37	4.32	4.46	4.55
Minnéapolis (\$/bu.) 2/ Rice, S.W. La. (\$/cwt) 3/ Wheat	3.70 17.98	3.25 16.11	2.62 10.25	2.92 19.25	3.30 15.40	4.42	4.37 14.20	4.46 13.80	4.45 13.50	4.50 15.40
Exports (mil. bu.) Mill grind (mil. bu.) Wheat flour production (mil. cwt) Rice	1,424 676 301	915 703 314	1,004 755 335	1,592 753 336	154 65 29	120 63 29	134 59 27	149 59 26	122 59 27	
Exports (mil. cwt, rough equiv.)	62.1	58.7	84.2	72.2	7.3	10.0	9.1	10.0	6.5	

		arketing y		1987		198	38		19	189
⊌heat	1985/86	1986/87	1987/88	Sept · Nov	Oec-Feb	Mar-May	Jun-Aug	Sept-Nov	0ec-Feb	Mar-May
Stocks, beginning (mil. bu.) Domestic use	1,425	1,905	1,821	2,976.5	2,500.6	1,923.5	1,260.8	2,253.6	1,709.9	1,221.7
Food (mil. bu.) Seed, feed & residual (mil. bu. Exports (mil. bu.)	674 279 915	696 413 1,004	719 288 1,592	191.1 -76.6 308.5	168.6 -5.0 413.1	180.0 2.6 460.6	179.2 283.6 363.4	194_4 -40.4 330.1	168.6 -41.1 363.1	182.8 -30.1 383.4

1/ Beginning June 1 for wheat & August 1 for rice. 2/ Ordinary protein. 3/ Long grain, milled basis. 4/ Residual includes eed use. -- = not available. feed use. --

Information contacts: Ed Allen & Janet Livezey (202) 786-1840.

Table 19.—Cotton_

		Marke	ting year	1/	1988			1989		
U.S. price, SLM.	1984/85	1985/86	1986/87	1987/88	May	Jan	Feb	Mar	Apr	May
U.S. price, SLM, 1-1/16 in. (cts./lb.) 2/ Northern Europe prices	60.5	60.0	53.2	63.1	61.6	55.7	55.4	57.6	61.4	63.7
Index (cts./tb.) 3/ U.S. M 1-3/32 in. (cts./lb.) 4/	69.2 73.9	48.9 64.8	62.0 61.8	72.7 76.3	65.6 75.3	63.1 67.2	63.0 68.1	66.0 70.0	73.8 74.1	77.3 76.9
U.S. mill consumpt. (1,000 bales) Exports (thou bales) Stocks, beginning (1,000 bales)	5,545 6, <u>201</u> 2,775	6,399 1,969 4,102	7,452 6,684 9,348	7,617 6,582 5,026	630 517 8,689	629 483 15,635	595 738 15,170 13	706 629 3,947 1	636 627 2,613 11	749 754 .350

1/ Beginning August 1. 2/ Average spot market. 3/ Liverpool Outlook (A) index; average of five lowest priced of 11 selected growths. 4/ Memphis territory growths.

Information contact: Bob Skinner (202) 786-1840.

		Marketin	ng year 1,	/	1988			1989		
	1984/85	1985/86	1986/87	1987/88		Jan	Feb	Mar	Åpr	May
Wholesale prices Corn, no. 2 yellow, Chicago (\$/bu.)	2.79	2.35	1.64	2.14	2.09	2.74	2.72	2.78	2.72	2.77
Sorghum, no. 2 yellow, Kansas City (\$/cwt)	4.46	3.72	2.73	3.40	3.21	4.24	4.26	4.32	4.17	4.29
Barley, feed, Duluth (\$/bu.) 2/	2.09	1.53	1.44	1.78	1.98	2.24	2.33	2.49	2.52	2.41
Barley, maiting, Minneapolis (\$/bu.)	2.55	2.24	1.89	2.04	2.24	4.14	4.19	4.33	4.29	3.84
Exports 3/ Corn (mil. bu.) Feed grains (mil. metric tons)	1,865 4/ 56.6	1,241	1,504 46.3	1,732 52.6	180.2 5.3	175.2 5.3	154.9 4.8	202.8 ∜6.0	177.5 5.5	X
		Marketin	ng year 1.	/		1988			1989	
	1984/85	1985/86	1986/87	1987/88	Mar-May	Jun-Aug	Sept-Nov	0ec-Feb	Mar-May	Apr-June
Corn Stocks, beginning (mil. bu.)	1,006	1,648	4,040	4,882	7,635	5,836	4,259	7,072	5,205	3,419
Domestic use Feed (mil. bu.) Food, seed, ind. (mil. bu.) Exports (mil. bu.) Total use (mil. bu.)	4,079 1,091 1,865 7,036	4,095 1,160 1,241 6,496	4,714 1,192 1,504 7,410	4,746 1,224 1,720 7,690	960 315 514 1,804	839 323 414 1,577	1,338 294 482 2,109	1,077 284 510 1,869	853 322 595 1,787	

1/ September 1 for corn & Sorghum; June 1 for oats & barley. 2/ Beginning March 1987 reporting point changed from Minneapolis to Duluth. 3/ Excludes products. 4/ Aggregated data for corn, sorghum, cats, & barley. -- not available.

Information contact: James Cole (202) 786-1840.

Table 21.—Fats & Oils						_				
		Marketing	year *			1988		19	989	
	1984/85	1985/86	1986/87	1987/88	Apr	Dec	Jan	Feb	Mar	Apr
Soybeans . Wholesale price, no. 1 yellow, . Chicago (%/bu.) . Crushings (mil. bu.) . Exports (mil. bu.) . Stocks, beginning (mil. bu.)	5.88 1,030.5 598.2 175.7	5.20 1,052.8 740.7 316.0	5.03 1,178.8 756.9 536.0	6.67 1,174.5 801.6 436.0	6.64 102.6 66.7 133.8	7.74 100.7 69.3 147.4	7.70 99.8 66.6 138.6	7.45 85.8 56.8 131.9	7.62 93.5 67.9 112.0	7.25 89.6 41.4 99.2
Soybean oil Wholesale price, crude, Decatur (cts./lb.) Production (mil. lb.) Domestic disap. (mil. lb.) Exports (mil. lb.) Stocks, beginning (mil. lb.)	29.52 11,467.9 9,888.5 1,659.9 720.5	18.02 11,617.3 10,045.9 1,257.3 632.5	15.36 12,783.1 10,820.2 1,184.5 946.6	22.92 12.974.5 10,734.1 1,873.2 1,725.0	1,132.7 1,002.5 87.7	22.16 1,110.4 753.7 119.9 2,303.0	21.13 1,105.8 838.0 104.5 2,539.9	21.21 952.3 687.2 65.8 2,703.2	22.11 1,041.2 937.8 112.4 2,902.4	21.97 1,004.0 1,032.9 105.5 2,893.4
	125.46 24,529.3 19,481.3 4,916.5 255.4	154.88 24,951.3 19,117.2 6,009.3 386.9	162.61 27,758.8 20,387.4 7,343.0 211.7	221.90 28,060.2 21,275.9 6,871.0 240.2	200.40 2,449.9 1,654.9 739.1 243.7	246.00 2,390.0 1,737.9 594.1 295.6	249.30 2,359.8 1,723.2 548.0 353.6	234.10 2,036.3 1,570.8 512.1 442.3	237.10 2,218.8 1,615.8 760.9 395.7	220.75 2,126.6 1,456.7 610.9 237.9
Margarine, wholesale price, Chicago, white (cts./lb.)	55.5	51.2	40.3	40.3	47.19	55.26	54.63	54.00	55.44	55.76

^{*} Beginning September 1 for soybeans; October 1 for soymeal & oil; calendar year for margarine.

Information contacts: Roger Hoskin (202) 786-1840, Tom Bickerton (202) 786-1824.

Table 22.—Farm Programs, Price Supports, Participation & Payment Rates

2			,	Par Par	yment rates				
	Target price	Loan rate	loan rate	Deficiency	Paid land diver- sion	PIK	Base acres 1/	Program 2/	Partici- pation rate 3/
			\$/bu.			Percent 4/	Hil. acres		Percent of base
Wheat 1983/84 1984/85 1985/86 1986/87 1987/88 1988/89 1989/90	4.38 4.38 4.38 4.38 4.23 4.10	3.65 3.30 3.30 3.00 2.85 2.76 2.58	2.40	1.05 1.08 1.98 1.78 1.78 7/ .50	2.70 2.70 2.70 2.00	95 85 1.10	90.2 94.0 94.0 91.0 87.6 84.8	15/5/10-30 20/10/10-20 20/10/0 22.5/2.5/5-10 27.5/0/0 10/0/0	78/78/51 60/60/20 73 85/85/21 87 83 77
Rice 1983/84 1984/85 1985/86 1986/87 1987/88 1988/89 1989/90	11.40 11.90 11.90 11.90 11.66 11.15	8.14 8.00 8.00 7.20 6.84 6.63 6.50	6/3.16 6/3.82 6/5.77 6/6.30 6/6.50	2.77 3.76 3.90 4.70 4.82 1.65 1.29	2.70 3.50	80	3.95 4.16 4.23 4.20 4.18 4.20 4.10	15/5/10-30 25/0/0 20/15/0 35/0/0 35/0/0 25/0/0 25/0/0	98/98/87 85 90 95 95 92 94
Corn 1983/84 1984/85 1985/86 1986/87 1987/88 1988/89 1989/90	2.86 3.03 3.03 3.03 3.03 2.93 2.84	2.65 2.55 2.55 2.40 2.28 2.21 2.06	1.92 1.82 1.77 1.65	0 .43 .48 1.11 1.09 7/ 1.10 7/ .89	1.50 .73 2.00 1.75	80	82.6 80.8 84.2 81.7 81.5 82.9	10/10/10-30 10/0/0 10/0/0 17.5/2.5/0 20/15/0 20/10/0; 0/92 10/0/0; 0/92	71/71/60 54 69 86 90 90
Sorghum 1983/84 1984/85 1985/86 1986/87 1987/88 1988/89 1989/90	2.72 2.88 2.88 2.88 2.78 2.78	2.52 2.42 2.42 2.28 2.17 2.10	1.82 1.74 1.68 1.57	0 .46 .46 1.06 1.14 1.08 7/ .90	1.50 .65 1.90 1.65	80	17.6 18.4 19.3 19.0 17.4 16.8	8/[same]	72/72/53 42 55 75 83/42 81
Barley 1983/84 1984/85 1985/86 1986/87 1987/88 1988/89 1989/90	2.60 2.60 2.60 2.60 2.51 2.43	2.16 2.08 2.08 1.95 1.86 1.80	1.56 1.49 1.44 1.34	.21 .26 .52 .99 .79 .76 7/ .23	1.00 .57 1.60 1.40		10.2 11.6 13.3 12.4 12.5 12.5	8/[\$ame]	55/55/0 44/ 57/ 72 84 78
Oats 1983/84 1984/85 1985/86 1986/87 1987/88 1988/89 1989/90	1.60 1.60 1.60 1.60 1.55 1.55	1.36 1.31 1.31 1.23 1.17 1.13	\$/bu. .99 .94 .90 .85	.11 0 -29 .39 .20 11/ .30	.75 .36 .80		10.1 9.8 9.4 9.2 8.4 7.9	8/[same] 5/0/0; 0/92 5/0/0; 0/92	20/20/0 14 14 37 45 30
Soybeans 9/ 1983/84 1984/85 1985/86 1986/87 5/ 1987/88 1988/89 1989/90 10/		5.02 5.02 5.02 4.77 4.77	\$/bu.						
Upland cotton 1983/84 1984/85 1985/86 1986/87 5/ 1987/88 1988/89 1989/90	76.0 81.0 81.0 79.4 75.9 73.4	55.00 55.00 57.30 55.00 52.25 51.80 50.00	11/44.00 12/	12.10 18.60 23.70 26.00 17.3 16.00	25.00 30.00	85	15.2 15.6 15.9 15.6 14.7	20/5/10-30 25/0/0 20/10/0 25/0/0 25/0/0 12.5/0/0 25/0/0	93/93/77 70 82/0/0 93 92 88

^{1/} Includes planted area plus acres considered planted (ARP, PLO, 0-92 etc). Net of CRP. Revised April 1989. 2/ Percentage of base acres that farmers participating in Acreage Reduction Programs/Paid Land Diversion/PIK were required to devote to conserving uses to receive program benefits. In addition to the percentages shown for 1983/84, farmers had the option of submitting bids to retire their entire base acreages. 3/ Percentage of base acres enrolled in Acreage Reduction Programs/Paid Land Diversion/PIK.
4/ Percent of program yield, except 1986/87 wheat, which is dollars per bushel. 1983 & 1984 PIK rates apply only to the 10-30 and 10-20 portions, respectively. 5/ Rates for payments received in cash were reduced by 4.3 percent in 1986/87 due to Gramm-Rudman-Mollings. 6/ Annual average world market price. 7/ Guaranteed to farmers signed up for 0/92. 8/ The sorghum, oats, & bariey programs were the same as for corn each year except 1983/84, when PIK was not offered on barley & pats, & in 1988 for oats.
9/ There are no target prices, acreage programs, or payment rates for sorbeans. 10/ Loan rate is not to be announced prior to August 1, 1989. 11/ Loan repayment rate. 12/ Loans may be repaid at the lower of the Loan rate or world market prices.

Information contact: James Cole (202) 786-1840.

Tuble 20. Truit							_					
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988 F
Citrus 1/ Production (1,000 ton) Per capita consumpt. (lbs.) 2/	14,255 115.1	13,329 107.5	16,484 108.4	15,105 112.6		13,608 109.3	10,792 1 11 9. 9	0,525 1 102.9	1,051 1 109.1	1,968 13 118.0	2,728 1 114.9	3,113
Production (1,000 tons) Per capita consumpt. (lbs.) 2/	12,274		13,689 85.7		12,961 88.0	14,217 89.0	13,707 1 88.9	3,796 1 93.7	3,680 1: 92.3	3,498 15 95.7	5,454 1 101.9	5,259
				1988						1989		
	June	July	Aug	Sept	Oct	No	v Dec	Jan	Feb	Mar	Apr	May
F.o.b. shipping point prices Apples (%/carton) 4/ Peara (%/box) 5/ Oranges (%/box) 6/ Grapeffwit (%/box) 6/	14.21 17.50 8.42 3.36	23.87 6.41 4.85	23.05 4.90 4.09	20.45 4.17 7.34	13.80 5.48 7.57	12.1 12.4 5.8 4.7	8 12.33 2 6.50	9.70	10.58		11.25 9.73 6.64 3.28	13.67
Stocks, ending Fresh appies (mil. lbs.) Fresh pears (mil. lbs.) Frozen fruits (mil. lbs.)	248.1 2.7 657.3	95.0 864.0	5.1 117.6 981.4	434.0	4,601.8 425.7 1,116.0	3,904.3 368.3 1,011.8	295.5	2,659.6 234.6 834.5	2.094.6 162.9 759.3	1,544.2 115.1 671.4	1,069.1 57.7 601.7	616.0 26.6 575.9
frozen orange juice (mil. lbs.)	1,154.7	1,001.8	862.5	693.1	639.7	587.7	721.6	980.9	1,151.1	1,086.8	1,204.2	1,323.6

1/ Crop year beginning with year indicated. 2/ Per capite consumption for total U.S. population, including military consumption of both fresh and processed fruit in fresh weight equivalent. 3/ Calendar year. 4/ Red delicious, Washington, extra fancy, carton tray pack. 125's. 5/ D'Anjou, Washington, standard box wrapped, U.S. no. 1, 135's. 6/ U.S. equivalent on tree returns.

F = forecast. -- = not available.

Information contact: Ben Huang (202) 786-1885.

Table 24.—Vegetables

Table 24.—Vegetables												
					Са	lendar y	/еаг					
	1979	1980	1981	1982	198	3	1984	1985	19	86	1987	1988
Production Total vegetables (1,000 cwt) Fresh (1,000 cwt) 1/ 2/ Processed (tons) 3/ Mushrooms (1,000 tbs.) Potatoes (1,000 cwt) Sweetpotatoes (1,000 cwt) Dry edible beans (1,000 cwt)	1/ 413,925 190,859 11,153,300 470,069 342,447 13,370 20,552	381,370 190,228 9,557,100 469,576 302,857 10,953 26,729	8 194,69 0 9,221,46 6 517,14 7 338,59 3 12,79	24 207,924 50 11,179,590 6 490,826	197,9 10,270,0 561,5 333,9	19 21 50 12,01 31 59 11 36	7,392 17,132 13,020 1° 25,681 2,612 2,986 1,070	453,769 217,932 1,791,860 587,956 407,109 14,853 22,175	11,616, 614, 361,	267 2 560 12,2 393 6 511 3	64 141 219 689 222 620 1 331 690 85 462 12 064 25 909	452,731 225,784 11,347,370 349,973 11,832 19,230
				1988						1989	,	
	May	June	July	Aug Sept	Oct	Nov	Dec	Jan	Feb	Mor	Apr	May
Shipments Fresh (1,000 cwt) 4/ Poterces (1,000 cwt) Sweetpotatoes (1,000 cwt)	26,488 12,356 174	36,998 12,791 127	21,631 21 7,461 10 91	791 15,215 014 9,963 212 262	16,475 9,958 305	20,999 13,948 876	16,535 11,092 460	18,041 11,137 246	18.754 10.497 278	24,944 14,733 441	20.887 13,005 229	27,972 12,005 170

1/ 1983 data are not comparable with 1984 & 1985. 2/ Estimate reinstated for asparagus with the 1984 crop; all other years also include broccoli, carrots, cauliflower, celery, sweet corn, lettuce, honeydews, onions. & tomatoes. 3/ Eatimates reinstated for cucumbers with the 1984 crop; all other years also include Snap beans, sweet corn, green peas. & tomatoes. 4/ Includes Snap beans, broccoli, cabbage, carrots, cauliflower, celery, sweet corn, cucumbers, eggplant, lettuce, onions, bell peppers, squash, tomatoes, cantaloupes, honeydews, & watermelons. -- = not available.

Information contacts: Shannon Ranm or Cathy Greene (202) 786-1884.

Table 25 — Other Commodities

Tuble 25.—Office Col	HILIOOHI	es						_		
			Annual				198	38		1989
	1984	1985	1986	1987	1988	Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar
Sugar Production 1/ Deliveries 1/ Stocks, ending 1/ Coffee	5,890 8,454 3,005	5,969 8,035 3,126	6,257 7,786 3,225	7,309 8,167 3,195	7,069 8,188 3,117	2,082 1,951 3,567	772 1,983 2,467	642 2,147 1,316	3,573 2,107 3,134	1,835 1,902 3,413
Composite green price N.Y. (cts./lb.)	142.95	137.46	185.18	109.14	115.59	121.98	121.44	4 114.20	120.75	126.67
Imports, green bean equiv. (mil. lbs.) 2,	/ 2,411	2,550	2,596	2,638	2,072	584	422	594	472	586
		Annual			1	988			1989	
Tobacco	1986	1987	1988	Mar	Oct	Nov	Dec	Jan	Feb	Mar
Prices at auctions 3/ Flue-cured (\$/lb.) Burley (\$/lb.)	1.52 1.57	1.59 1.56	1.61 1.62		1.71 NO	1.61 1.63	1.62	1.60	1.54	
Domestic consumption 4 Cigarettes (bil.) Large cigars (mil.)	584.0	577.0 2,760	543.3 2,541	55.3 223.9	46.9 217.4	56.3 209.7	39.5 203.3	46.9 169.3	41.9 171.4	51.7 217.6

1/ 1,000 short tons, raw value. Quarterly data shown at end of each quarter. 2/ Net imports of green & processed coffee. 3/ Crop year July-June for flue-cured, Oct.-Sept. for burley. 4/ Taxable removals. P = preliminary. -- = not available. NQ = no quote.

Information contacts: sugar, Peter Buzzanell (202) 786-1888, coffee, Fred Gray (202) 786-1888, tobacco, Verner Grise (202) 786-1890.

Table 26.—World Supply & Utilization of Major Crops, Livestock, & Products

	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89 P	1989/90 F
Wheat	222.0	074.4		Million units			-
Area (hectares) Production (metric tons) Exports (metric tons) 1/	228.8 489.3 102.0	231.0 511.9 107.0	229.3 500.1 85.0	228.1 530.7 90.7	219.9 501.8 105.5	217.9 500.2 .98.8	227-5 533.4 99.0
Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	474.1 145.2	493.0 164.0	496.2 167.9	522.4 176.1	531.6 146.3	\$30.0 116.5	538.1 111.8
Coarse grains Area (hectares) Production (metric tons)	335.1 687.6	334.7 815.8	341.2 843.3	336.8 835.2	323.6	327.2 728.2	809.4
Exports (metric tons) 1/ Consumption (metric tons)_2/	93.4 758.8	100.4 782.6	83.2 779.1	84-1	792.1 83.1 812.8	97.0 799.7	94.9 817.0
Ending stocks (metric tons) 3/ Rice, milled	110.7	143.9	208.1	233.8	213.1	141.6	134.0
Area (hectares) Production (metric tons)	144.2 307.9	144.3 318.8	144.9 320.0	145.1 318.3	141.0 312.6	143.8 324.4	328.2
Exports (metric tons) 4/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	12.6 304.5 46.6	310.6 54.9	12.6 319.7 54.0	12.8 323.1 49.2	11.8 320.5 41.4	13.4 322.8 42.9	12.7 328.7 42.4
Total grains Area (hectares)	708.1	710.0	715.4	710.0	684.5	688.9	227.5
Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/	1,484.8 208.0 1,537.4	1,646.5 218.8 1,586.2	1,663.4 180.8 1,595.0	1,684.2 187.6 1,655.0	1,606.5 200.4 1,664.9	1,552.8 209.2 1,652.5	1,671.0 206.6 1,683.8
Ending stocks (metric tons) 3/	302.5	362.8	430.0	459.1	400.8	301.0	288.2
Oilseeds Crush (metric tons) Production (metric tons)	135.8 165.0	150.7 191.1	155.1 196.1	161.3 194.2	166.9 208.0	165.6 199.1	172.6 215.4
Exports (metric tons) Ending stocks (metric tons)	33.0 15.7	33.1 21.1	34.5	37.7 23.5	39.5 23.9	32.3 19.0	34.7 21.2
Meals Production (metric tons)	92.5	101.8	105.0	110.3	114.2 36.3	112.1	117.5
Exports (metric tons) Oils	29.7	32.3	34.4	36.7	36.3	36.8	38.8
Production (metric tons) Exports (metric tons)	42.1 13.7	46.2 15.6	49.3 16.4	50.3 16.9	52.7 17.5	52.9 17.3	55.5 18.2
Cotton Area (hectares)	31.0	33.9	31,9	20 0	31.1	34.0	
Production (bales) Exports (bales)	65.6 19.2	88.2 20.2	79.6 20.2	29.9 70.4 26.0	80.8 23.2	84.0 24.7	80.8 24.8
Consumption (bales) Ending stocks (bales)	68.3 24.0	70. 0 42.4	75.8 47.2	82.5 34.5	84.0 30.9	83.6 31.7	84.8 27.7
	1983	1984	1985	1986	1987	1988	1989 F
Red meat Production (metric tons) Consumption (metric tons)	97.5 95.8	99.6	103.5 101.5	106.4 105.3	108.8 107.1	109.9	110.6
Exports (metric tons) 1/	5.9	97.6 5.9	6.2	6.6	6.6	108.6 6.7	109.2 6.9
Poultry Production (metric tons) Consumption (metric tons)	24.4	25.2	26.2	27-4	29.2	30.1	31.3
Exports (metric tons) 1/	24.4 24.3 1.3	24.8 1.3	26.0 1.2	27.0	28.8 1.5	29.7 1.5	30.8 1.6
Dairy Milk production (metric tons)	413.0	413.5	419.1	427.0	427.0	430.5	433.9

^{1/} Excludes intra-EC trade. 2/ Where stocks data not available (excluding USSR), consumption includes stock changes.
3/ Stocks data are based on differing marketing years & do not represent levels at a given date. Data not available for all countries; includes estimated change in USSR grain stocks but not absolute level. 4/ Calendar year data. 1984 data correspond with 1983/84, etc. P = preliminary. F = forecast.

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Information contacts: Frederic Surls (202) 786-1824; red meat & poultry, Linda Bailey (202) 786-1286; dairy, Sara Short (202) 786-1769.

Table 27.—Prices of Principal U.S. Agricultural Trade Products

		Annual		1	988			1989		
	1986	1987	1988	May	Dec	Jan	Feb	Mar	Apr	May
Export commodities Wheat, f.o.b. vessel, Gulf ports (\$/bu.) Corn, f.o.b. vessel, Gulf ports (\$/bu.)	3.19 2.27	3.11 1.95	3.97 2.73	3.54 2.28	4.55 3.00	4.75 3.03	4.70 3.00	4.88	4.79 2.95	4.82 3.02
Grain sorghum, f.o.b. vessel, Gulf ports (\$/bu.) Soybeans, f.o.b. vessel, Gulf ports (\$/bu.)	2.16 5.45	1.88 5.55	2.52 7.81	2.12 7.38	2.79 8.07	2.81 8.09	2.81 7.89	2. 83 8.05	2.76 7.61	2.84 7.61
Soybean oil Decatur (cts./lb.) Soybean meal, Decatur (\$/ton) Cotton, 8-market avg. spot (cts./lb.)	16.36 157.62 53.47	15.85 175.57 64.35	23.52 234.75 57.25	23.39 224.40 61.55	21.75 246.48 54.85	20.98 248.76 55.67	21.02 234.18 55.39	22.02 235.70 57.60	21.88 220.90 61.43	22.23 215.09 63.70
Tobacco, avg. price at auction (cts./lb.) Rice, f.o.b. mill, Houston (\$/cwt) Inedible tallow, Chicago (cts./lb.)	153.96 14.60 9.03	144.32 13.15 13.79	147.93 19.60 16.64	141.34 21.20 16.17	161.00 15.00 16.33	162.27 15.00 14.90	159.74 15.00 16.00	159.74 15.00 14.86	160.43 15.00 14.60	160.43 15.00 14.70
Import commodities Coffee, N.Y. spot (\$/\b.) Rubber, N.Y. spot (cts./\b.)	2.01 42.87	1.09	1.21	1.22	1.31	1.46	1.31	1.28	1.33	1.36 52.07
Cocoa beans, N.Y. (\$/(b.)	.88	. 87	.69	.74	.66	.64	.68	.64	.58	.54

Information contact: Mary Teymourian (202) 786-1820.

Table 28.—Indexes of Real Trade-Weighted Dollar Exchange Rates 1

				-		_						
				1988					19	89		
	July	Aug	Sept	Oct	Nov	Dec	Jan P	Feb P	Mar P	Apr P	May P	June P
						1980	0=100					
Total U.S. trade 2/	108.4	110.5	110.5	107.6	103.5	103.3	106.9	107.9	109.2	109.5	114.0	115.5
Agricultural trade U.S. markets U.S. competitors Wheat	105.5 126.6	106.1 128.1	107.4 128.1	104.8 126.3	101.9 123.8	101.5 123.0	103.2 123.8	103.4 124.6	103.5 121.5	102.9 118.5	104.6 117.5	105.8 118.1
U.S. markets U.S. competitors Soybeans	115.5 119.7	115.7 120.7	118.8 119.7	116.5 116.6	114.6 114.2	114.6 112.6	117.1 113.3	116.9 113.9	113.8 115.4	110.7 115.3	109.7 117.6	109.3 118.9
U.S. markets U.S. competitors Corn	103.3 186.3	104.5 185.9	104.5 174.7	101.9 169.2	98.1 167.5	97.9 164.7	100.6 162.6	101.1 161.3	102.0 153.8	102.1 139.9	105.1 129.6	107.2 128.0
U.S. markets U.S. competitors Cotton	93.4 170.7	93.6 171.6	94.1 164.8	91.4 159.3	88.2 155.0	87.6 153.6	89.0 156.8	89.1 157.8	89.6 158.2	89.3 158.3	90.9 161.4	93.1 163.3
U.S. markets U.S. competitors	101.3 100.7	101.8 99.5	102.1 101.8	100.0 99.1	96.9 97.1	96.4 95.8	97.9 95.2	97.9 94.2	98.4 95.2	98.3 93.0	99.8 91.9	100.9 96.4

1/ Real indexes adjust nominal exchange rates for differences in rates of inflation, to avoid the distortion caused by high-inflation countries. A higher value means the dollar has appreciated. See the October 1988 issue of Agricultural Outlook for a discussion of the calculations and the weights used. 2/ Federal Reserve Board Index of trade-weighted value of the U.S. dollar against 10 major currencies. Weights are based on relative importance in world financial markets. P = preliminary.

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Table 29.—Trade I	Balance									_
					Fiscal yea	r 1/				Apr
	1981	1982	1983	1984	1985	1986	1987	1988	1989 F	1989
					\$ m	illion				
Exports Agricultural Nonegricultural Total 2/	43,780 185,423 229,203	39,097 176,308 215,405	34,769 159,373 194,142	38,027 170,014 208,041	31,201 179,236 210,437	26,309 176,628 202,937	27,876 202,911 230,787	35,334 259,013 294,347	39,000	3,433 27,566 30,999
Imports Agricultural Nonagricultural Total 3/	17,218 237,469 254,687	15,485 233,349 248,834	16,373 230,527 246,900	18,916 297,736 316,652	19,740 313,722 333,462	20,875 342,855 363,730	20,650 367,374 388,024	21,011 409,141 430,152	21,000	1,833 36,391 38,224
Trade balance Agricultural Nonagricultural Total	26,562 -52,046 -25,484	23,612 -57,041 -33,429	18,396 -71,154 -52,758	19,111 -127,722 -108,611	11,461 -134,486 -123,025	5,434 -166,227 -160,793	7,226 -164,463 -157,237	14,323 -150,128 -135,805	18,000	1,600 -8,825 -7,225

1/ Fiscal years begin October 1 & end September 30. Fiscal year 1988 began Oct. 1, 1987 & ended Sept. 30, 1988. 2/ Domestic exports including Department of Defense shipments (F.A.S. value). 3/ Imports for consumption (customs value). F = forecast. -- = not available.

Information contact: Stephen MacDonald (202) 786-1822.

Table 30.—U.S. Agricultural Exports & Imports

	fiscal year*			Apr		Fiscal	уеаг*		Apr	
	1986	1987	1988	1989 F	1989	1986	1987	1988	1989 F	1989
			1,00	0 units			\$	million		
EXPORTS										
Animals, live (ng.) 1/ Meats & preps., excl. poultry (mt) Dairy products (mt) Poultry meats (mt) Fats, oils, & greases (mt) Mides & skins incl. furskins Cattle hides, whole (no.) 1/ Mink pelts (no.) 1/	570 451 480 265 1,355 25,596 2,697	275 548 445 376 1,220 24,333 2,760	1,082 631 388 390 1,362 23,282 2,455	2/600 3/1,400	64 72 56 41 121 2,321 336	1,012 431 282 477 1,440 1,131 65	331 1,300 491 406 417 1,666 1,254	1,797 536 424 545 1,838 1,457 88	500 	207 207 34 43 45 144 116
Grains & feeds (mt) Wheat (mt) Wheat flour (mt)	74,358 25,501 1,094	90,211 28,204 1,305	108,905 40,501 1,046	37,000 1,300	9,973 3,154 128	9,472 3,260 203	9,059 2,877 207	12,581 4,467 171	4/16,300 5/6,200	1,463 515 27
Rice (mt) Feed grains, incl. products (mt) Feeds & fodders (mt) Other grain products (mt)	2,302	2,45 4 47,606 10,113 755	53,308 11,233 908	2,400 62,500 6/11,000	5,571 5,571 847 99	3,817 1,286 332	3,752 1,455 285	5,209 1,719 361	7,500	684 139 44
Fruits, nuts, and preps. (mt) Fruit Juices incl.	2,003	2,146	2,409	-5-	243	1,766	2,050	2,368		192
froz. (1,000 hectoliters) 1/ Vegetables & preps. (mt)	3,652 1,442	1,629	5,497 1,826		416 241	148 997	185 1,176	1,282		143
Tobacco, unmanufactured (mt) Cotton, excl. linters (mt) Seeds (mt) Sugar, cane or beet (mt)	224 482 269 375	1,306 305 582	1,388 1,388 286 318	200 1,400	20 137 29 28	1,318 678 367 75	1,203 1,419 371 113	1,296 2,136 415 98	1,300 2,000 400	121 185 33 10
Oilseeds & products (mt) Oilseeds (mt) Soybeans (mt) Protein meal (mt) Vegetable oils (mt) Essential oils (mt) Other	27,583 20,684 20,139 5,614 1,284 7 568	29,725 21,905 21,394 6,786 1,035 8	29, 471 21, 366 20, 908 6, 406 1, 699 9	15,400 4,500	1,864 1,193 1,111 563 108 1 57	6,271 4,394 4,174 1,132 746 105 1,126	6,308 4,423 4,205 1,347 538 111 1,273	7,700 5,238 5,008 1,502 961 120 1,495	6,800 4,300 1,300	568 348 314 156 64 18
Total	109,862	129,290	148,280	146,50o	12,883	26,309	27,876	35,334	39,0 00	3,433
IMPORTS										
Animals, live (ng.) 1/ Meats & preps., excl. poultry (mt) Beef & veal (mt) Pork (mt) Dairy products (mt) Poultry & products 1/ fats, oils, & greases (mt) Hides & skins, incl. furskins 1/ Wool, unmanufactured (mt)	1,885 1,139 693 406 400 22 53	1,994 1,282 778 462 461 21 	2,238 1,280 779 456 337 20 56	725 410 355	225 91 54 32 22 1	637 2,248 1,252 900 786 101 17 200 160	610 2,797 1,575 1,125 849 112 18 304 201	729 2,788 1,681 1,001 881 97 19 247 292	700 1,600 900 800 	69 195 124 61 54 10 17
Grains & feeds (mt) Fruits, nuts, & preps.,	2,311	2,336	3,050	3,300	269	668	727	868	1,000	96
excl. juices (mt) Bananes & plantains (mt) Fruit juices (1,000 hectoliters) 1/	4,637 3,042 31,539	4,840 3,106 34,059	4,797 3,030 26,754	4,795 2,950 27,000	543 228 2,343	1,976 740 698	2,179 817 728	2,169 820 767	800	232 62 64
Vegetables & preps. (mt) Tobacco, unmanufactured (mt) Cotton, unmanufactured (mt) Seeds (mt) Nursery stock & cut flowers 1/ Sugar, cane or beet (mt)	2,199 208 41 89 1,905	2,446 225 38 133 1,492	2,521 217 36 143 1,069	2,550 200 170	299 19 1 36 84	1,560 606 14 111 353 654	1,509 634 7 156 369 497	1,593 611 9 153 419 368	1,700 500 200	200 54 1 28 35 30
Oilseeds & products (mt) Oilseeds (mt) Protein meal (mt) Vegetable oils (mt)	1,508 197 138 1,173	1,572 165 245 1,162	1,772 208 253 1,311	1,865	89 16 31 42	639 69 15 555	579 56 30 493	838 71 42 725	900 	45 7 5 33
Neverages excl. fruit Juices (1,000 hectoliters) 1/ Coffee, tea, cocoa, spices (mt) Coffee, incl. products (mt) Cocoa beans & products (mt)	15,488 1,940 1,223 507	15,547 1,915 1,206 503	15,583 1,842 1,050 562	1,000 530	1,084 161 89 53	1,848 6,099 4,400 1,189	1,923 4,868 3,233 1,087	2,008 4,274 2,600 1,164	2,800 1,000	139 332 202 90
Rubber & allied gums (mt) Other	801	824	846	875	76	615 885	714 868	949 931	1,000	89 100
Total						20,875	20,650	21,011	21,000	1,833

*Fiscal years begin Oct. 1 & end Sept. 30. Fiscal year 1988 began Oct. 1, 1987 & ended Sept. 30, 1988. 1/ Not included in total volume. 2/ forecasts for footnoted items 2/-6/ are based on slightly different groups of commodities. Fiscal 1988 exports of categories used in the 1989 forecasts were 2/ 561,000 m. tons. 3/ 1.347 million dollars 4/ 12,745 million. 5/ 4,638 million. i.e. includes flour. 6/ 11.095 million m. tons. F = forecast. -- = not available.

information contact: Stephen MacDonald (202) 786-1822.

Table 31.—U.S. Agricultural Exports by Region _

		Fiscal	year*		Apr	Cha	inge from	year* ea	rlier	Apr
Region & country	1986	1987	1988	19 89 F	1989	1986	1987	1988	1989 F	1989
			\$ million					Percent		
Western Europe European Community (EC-12) Belgium-Luxembourg France Germany, Fed. Rep. Italy Netherlands United Kingdom Portugal Spain, incl. Canary Islam Other Western Europe Switzerland	6,848 6,432 361 431 1,001 693 2,942 628 308 723 415 128	7,219 6,787 423 495 1,266 733 1,954 666 271 658 432 145	8,029 7,513 429 565 1,306 713 2,087 819 340 848 516 191	7,400	497 464 28 32 88 40 148 40 27 44 33	-5 -23 -23 -11 -2 6 -39 -13 -19 -45	5 17 15 26 - 4 - 12 - 4 13	11 11 14 -3 -7 23 25 29 20 32	-7 -8 0'	-22 -22 -6 -4 -61 -11 -33 -37 -27
Eastern Europe German Dem. Rep. Poland Yugoslavia Romania	447 52 42 134 112	453 66 63 131 115	559 67 167 104 93	400 	62 12 6 2 8	-16 -36 -66 -2 27	27 50 -2 3	23 0 165 -21 -19	-33	-25 2,634 -79 -93 -22
USSR	1,105	659	1,934	3,400	449	-56	-40	193	79	47
Asia West Asia (Mideast) Turkey Iraq Israel Saudi Arabia South Asia Bangladesh India Pakistan China Japan Southeast Asia Indonesia Philippines Other East Asia Yaiwan Korea, Rep. Hong Kong	10,494 1,243 1111 335 255 335 517 90 285 83 5,139 724 172 269 2,788 1,109 1,277 400	11,990 1,664 11,528 244 489 345 1111 93 93 235 5,554 708 152 259 3,485 1,354 1,693 436	15, 928 1, 903 120 735 334 464 805 107 354 274 1, 015 238 345 4, 577 2, 250 488	18,400 2,100 900 400 1,400 7,900 4,700 1,600 2,500 600	1,607 161 866 268 1022 48 438 739 70 144 437 141 246	-12 -14 -130 -15 -144 -305 -69 -146 -117 -179	14 34 58 -463 -188 -122 -1.45 -222 -1.45 -222 -1.45 -1.25 -233 -1.45 -1.25 -1.	33 144 339 377 -5 133 -3 281 181 161 31 43 56 33 24 16 33 12	16 11 29 -13 67 133 33 9 0 11	22 15 -35 12 -6 206 206 1,604 -30 124 -35 20 -17 -33 -2 19 14 21 21
Africa North Africa Morocco Algería Egypt Sub-Sahara Nigería Rep. S. Africa	2,134 1,401 159 329 875 733 158 70	1,784 1,279 196 244 761 505 67	2,272 1,659 193 537 786 613 44 85	2,400 1,800 700 900 600	149 126 22 53 64 23 1	-16 16 2 50 14 -44 -57 -63	-16 -9 -23 -26 -13 -31 -58 -30	27 30 -2 120 3 21 -35 74	30 15 0	-30 -19 -92 -7 4 -60 12 -30
Latin America & Caribbean Brazil Caribbean Islands Central America Colombia Mexico Peru Venezuela	3,598 445 752 334 137 1,114 108 493	3,765 418 829 377 115 1,215 1,40 459	4,401 176 867 413 178 1,726 174 597	4,800 100 2,100 600	449 5 91 42 15 234 1 43	-21 -20 -2 -7 -42 -29 2	5 -6 10 13 -16 9 30 -7	17 -58 5 10 55 42 24 30	-50 24 	35 -10 30 46 -37 86 -87 -24
Canada	1,466	1,776	1,973	2,000	195	- 15	21	11	0	24
Oceania Total	216 26,309	230 27,876	238 35,334	39,000	3,433	-16	6	3 27	0 10	29 12
Oeveloped countries	13,954	15,031	17,883	17,900	1,476	-8	8	19	0	1
Less developed countries	10,719	11,498	14,346	15,900	1,347	-15	7	25	11	18
Centrally planned countries	1,636	1,347	3,106	5,200	610	-50	-18	131	68	32

^{*}Fiscal years begin Oct. 1 & end Sept. 30. Fiscal year 1988 began Oct. 1, 1987 & ended Sept. 30, 1988. F = forecast. -- = not available.

Note: Adjusted for transshipments through Canada.

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Table 32.—Farm Income Statistics

							Calendar	year				
		1979	1980	1981	1982	1983	1984	1985	1986	1987	1988 F	1989 F
							s bil	Lion				
1.	Farm receipts Crops (incl. net CCC (oans) Livestock Farm related 1/	133.8 62.3 69.2 2.2	142.0 71.7 68.0 2.3	144.1 72.5 69.2 2.5	147.1 72.3 70.3 4.5	141.1 67.1 69.4 4.5	146.8 69.5 73.0 4.4	149.1 74.2 69.8 5.0	140.2 63.6 71.5 5.1	143.7 61.9 76.2 5.6	157 72 78 6	161 to 170 72 to 76 79 to 82 5 to 7
2.	Direct Government payments Cash payments Value of PIK commodities	1.4 1.4 0.0	1.3 1.3 0.0	1.9 1.9 0.0	3.5 3.5 0.0	9.3 4.1 5.2	8.4 4.0 4.5	7.7 7.6 0.1	11.8 8.1 3.7	16.8 6.7 10.1	14 8 7	10 to 12 7 to 11 1 to 2
3. 4. 5. 6.	Total gross farm income (4*5+6) 2/ Gross-cash income (1*2) Normoney income 3/ Value of inventory change	150.7 135.1 10.6 5.0	149.3 143.3 12.3 -6.3	166.4 146.0 13.8 6.5	163.5 150.6 14.3 -1.4	153.1 150.4 13.5 -10.9	174.9 155.2 13.4 6.3	166.1 156.7 11.8 -2.4	159.8. 152.0 10.6 -2.8	\$69.8 160.5 10.0 •.6	177 170 11 -4	185 to 190 168 to 173 8 to 10 4 to 7
7. 8.	Cash expenses 4/ Total expenses	101.7 123.3	109.1 133.1	113.2 139.4	112.8 140.0	113.5	116.6 142.7	110.2 134.0	100.6	103.3 123.5	113 133	115 to 119 136 to 140
9. 10.	Net cash income (4-7) Net farm income (3-8) Deflated (1982s)	33.4 27.4 34.9	34.2 16.1 18.8	32.8 26.9 28.6	37.8 23.5 23.5	36.9 12.7 12.2	38.7 32.3 30.0	46.6 32.2 28.9	51.4 37.4 32.8	57.1 46.3 39.5	58 44 36	50 to 55 47 to 52 39 to 43
11.	Off-farm income	33.8	34.7	35.8	36.4	37.0	38.9	42.6	44.6	46.8	49	48 to 51
12. 13.	Loan changes 5/: Real estate 5/: Non-real estate	13.0 11.2	9.9 5.3	9.1 6.5	3.8 3.4	2.3	-1.1 -0.8	-6.0 -9.6	-9.2 -10.7	-7.7 -4.9	-5 1	0 to 3 2 to 3
14. 15.	Rental income plus monetary change Capital expenditures 5/	6.3 20.1	6.1 18.0	6.4 16.8	6.3 13.3	5.3 12.7	8.9 12.5	8.8 9.6	7.8 8.6	6.8 9.8	9 11	7 to 9 10 to 12
16.	Net cash flow (9-12+13+14-15)	43.8	37.6	37.8	38.1	32.7	33.2	30.2	30.7	41.5	53	50 to 56

1/ Income from machine hire, custom work, sales of forest products, & other miscellaneous cash sources. 2/ Numbers in parentheses indicate the combination of items required to calculate a given item. 3/ Value of home consumption of self-produced food & imputed gross rental value of farm dowellings. 4/ Excludes capital consumption, perquisites to hired labor, & farm household expenses. 5/ Excludes farm households. Totals may not add because of rounding. F = forecast.

Information contact: Andy Bernat (202) 786-1808.

able 33.—Balance Sheet of the U.S. Farming Sector_

li .					Calend	lar year 1	/				
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988 F	1989 F
Assets					3	billion					
Real estate 706 Non-real estate 201 Livestock & poultry 61 Machinery & motor	706.2 201.6 61.4	782.9 213.2 60.6	784.7 212.0 53.5	748.8 212.4 53.0	739.6 205.7 49.7	639.6 208.9 49.6	558.6 190.4 46.3	510.1 181.5 47.6	522.6 186.6 57.9	551 200 66	587 to 597 196 to 202 65 to 69
vehicles Crops stored 2/ Financial assets Total farm assets	85.8 29.2 25.3 907.8	93.1 33.0 26.5 996.1	101.4 29.1 28.0 996.7	102.0 27.9 29.5 961.2	100.8 23.9 31.3 945.3	96.9 29.6 32.8 848.5	87.6 23.5 33.0 749.0	80.3 19.1 34.4 691.6	73.9 20.5 34.3 709.2	74 25 35 751	74 to 78 18 to 22 35 to 37 785 to 795
Liabilities Real estate debt 3/ Non-real estate debt 4/ Total farm debt Total farm equity	79.7 71.8 151.6 756.2	89.6 77.1 166.8 829.3	98.7 83.6 182.3 814.4	102.5 87.0 189.5 771.7	104.8 87.9 192.7 752.6	103.7 87.1 190.8 657.7	97.7 77.5 175.2 573.8	88.5 66.8 155.3 536.3	80.8 61.9 142.7 566.5	76 62 138 613	75 to 79 60 to 64 134 to 142 648 to 658
						Perce	ent				
Selected ratios Debt-to-assets Oebt-to-equity Debt-to-net cash income	16.7 20.0 454	16.7 20.1 488	18.3 22.4 556	19.7 24.6 497	20.4 25.6 523	22.5 29.0 493	23.4 30.5 376	22.5 29.0 302	20.1 25.2 250	18.4 22.5 236	17 to 18 21 to 22 254 to 264

1/ As of Dec. 31. 2/ Non-CCC crops held on farms plus value above loan rates for crops held under CCC. 3/ Excludes debt on operator dwellings, but includes CCC storage and drying facilities loans. 4/ Excludes debt for nonfarm purposes.

Information contacts: Ken Erickson or Jim Ryan (202) 786-1798.

LGUS! 1989

Table 34.—Cash Receipts from Farm Marketings, by State____

	Livestock & products						ips 1/			Tot	al 1/	
Region & State	1987	1988	Mar 1989	Apr 1989	1987	1988	Mar 1989	Apr 1989	1987	1988	Mar 1989	Apr 1989
	1701	1700	1707			\$ mill	ion 2/		·			
North Atlantic Haine New Hampshire Vermont Massachusetts Rhode Island Connecticut New York New Jersey Pennsylvania	243 66 377 124 12 196 1,800 140 2,319	216 60 352 105 180 1,781 192 2,348	20 5 32 9 1 16 159 16 229	19 5 29 9 1 14 152 16 215	170 38 35 268 63 170 726 423 905	212 77 53 298 66 202 847 451 939	37 7 4 16 4 17 57 28 86	38 7 20 6 21 60 39 82	413 104 412 393 75 366 2,527 563 3,224	428 137 405 403 79 382 2,628 643 3,287	57 12 35 25 6 32 216 45 315	56 12 33 29 7 35 212 55 297
North Central Ohio Indiana Illinois Michigan Wisconsin Minnesota Iowa Missouri North Dakota South Dakota Kansas	1,614 1,856 2,262 1,285 4,222 3,645 5,270 2,173 760 1,848 3,914	1,604 1,749 2,243 1,206 4,281 3,045 2,011 849 1,965 5,336 4,264	143 153 164 109 364 290 177 85 142 458 387	143 153 167 108 354 278 397 163 491 423 374	1,808 2,016 3,913 1,219 795 2,165 3,510 1,517 1,548 813 1,975 1,807	2,030 2,368 4,216 1,503 814 2,852 4,029 1,821 1,621 946 2,639 2,328	105 150 297 98 55 177 270 112 107 51 205	96 108 279 105 50 171 242 73 87 38 162 98	3,422 3,872 6,174 2,504 5,017 5,809 8,780 3,691 2,723 6,823 5,722	3,634 4,118 6,459 2,709 5,075 6,217 9,074 3,833 2,471 2,911 7,975 6,593	248 303 462 206 418 467 669 288 193 194 663 501	239 260 446 213 404 448 639 236 156 169 585 471
Southern Delaware Maryland Virginia West Virginia Worth Carolina South Carolina Georgia Florida Kentucky Tennessee Alabama Mississippi Arkansas Louisiana Oklahoma Texas	370 734 1,244 1,244 2,081 1,826 1,102 1,506 1,107 1,560 2,116 2,052 6,059	444 768 1,294 1779 2,174 488 2,011 1,114 1,538 1,080 1,695 1,176 2,278 2,278 2,278 6,498	42 72 108 15 210 42 164 97 101 104 173 109 215 46 187 473	43 72 137 16 202 45 186 101 84 160 105 201 45 195 475	114 394 448 52 1,634 4,70 1,261 4,125 913 826 588 939 1,027 899 700 3,027	154 458 595 70 1,999 1,553 4,589 992 965 697 1,170 1,691 1,320 1,118 3,817	7822455 16230 4230 4230 4230 4230 4230 4230 4230 4	9 65 21 3 61 17 66 715 39 40 37 52 221	485 1,692 1,692 3,715 3,087 5,227 2,439 2,148 1,979 3,1420 2,752 9,086	598 1,226 1,889 248 4,172 1,078 3,564 5,703 2,534 6 2,391 2,346 2,391 2,346 2,391 2,346 2,	49 99 133 19 265 60 227 520 141 141 206 127 266 68 231 669	52 137 158 19 262 252 816 114 124 198 238 72 247 696
Western Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada Washington Oregon California Alaska Hawaii	760 926 928 2,321 817 774 462 167 982 4,741 11 88	816 1,033 575 2,655 910 793 537 150 1,141 669 4,704 10	72 102 37 217 120 77 38 13 109 450 1	54 102 41 201 79 63 50 13 98 55 505	587 1,120 114 870 331 1,007 134 76 1,860 1,206 10,781	1,343 1,55 1,089 3,66 1,165 150 80 2,156 1,441 11,304 20	41 98 11 130 22 132 10 136 72 651 42	38 126 9 106 22 61 12 773 163 84 773 1	1,347 2,047 642 3,191 1,781 596 243 2,841 1,861 15,522 29 559	1,389 2,376 7,730 3,744 1,276 1,958 687 230 3,297 2,110 16,007 588	112 201 48 347 142 209 50 23 245 133 1,101 2 50	92 228 50 10 124 61 13 261 1,278 48
United States	76,218	78,845	6,822	6,639	61,876	72,431	4,417	4,669	138,094	131,670	11,230	11,550

^{1/} Sales of farm products include receipts from commodities placed under CCC loans minus value of redemptions during the period. 2/ Estimates as of end of current month. Totals may not add because of rounding.

Information contact: Roger Strickland (202) 786-1804.

Table 35.—Cash Receipts from Farming

			!	linnuel				1988			1989	
	1983	1984	1985	1986	1987	1988	Apr	Dec	Jan	Feb	Har	Apr
		\$ million										
Farm marketings & CCC loans*	136,567	142,436	144,015	135,102	138,094	151,276	10,275	13,176	14,055	11,501	11,238	11,308
Livestock & products Meat animals Dairy products Poultry & eggs Other	69,438 38,893 18,763 9,981 1,801	72,966 40,832 17,944 12,223 1,967	69,842 38,589 18,063 11,211 1,979	71,548 39,122 17,753 12,678 1,994	76,218 44,716 17,829 11,487 2,187	78,845 45,974 17,668 12,865 2,338	6,186 3,768 1,451 807 160	6,237 3,404 1,639 1,045 150	7,124 4,235 1,611 1,106 172	6,682 4,108 1,435 1,001 138	6,822 3,862 1,568 1,233 158	6,639 3,765 1,559 1,158 158
Crops Food Grains Feed crops Cotton (lint & seed) Tobacco Oil bearing crops Vegetables & melons Fruits & tree nuts Other	67, 129 9,713 15,535 3,705 2,755 13,546 8,459 6,056	9.740	74,173 8,993 22,520 3,687 2,722 12,474 8,558 6,843 8,378	63,554 5,631 16,982 3,551 1,918 10,592 8,630 7,288 0,962	61,876 5,411 13,061 1,827 10,800 9,223 7,869 9,658	72,431 7,679 15,287 4,667 2,039 13,700 9,785 8,67 10,599	4,089 243 712 107 23 596 852 422 1,135	6,939 572 1,334 1,165 211 937 556 951 1,212	6,932 604 1,426 750 385 1,478 1,050 	4,819 345 1,262 537 17 714 788 490 666	4,417 292 1,104 65 0 731 1,061 - 258 906	4,669 312 964 134 30 515 1,243 - 334 1,137
Government payments Total	9,295 145,862	8,430 150,866	7,704	11,813 146,915	16,747 154,841	14,480 165,756	1,879	468 13.644	331 14,386	2,208	1,103	902

^{*}Receipts from loans represent value of commodities placed under CCC loans minus value of redemptions during the month.

Information contact: Roger Strickland (202) 786-1804.

Table 36.—Farm Production Expenses

					Calend	iar year				
	1980	1981	1982	1983	1984	1985	1986	1987	1988	F 1989 F
					\$ mi	llion				
Feed	20,971	20,855	18,592	21,725	19,852	18,015	16,179	16,093	20,600	20,000 to 24,000
Livestock	10,670	8,999	9,684	8,814	9,498	8,958	9,744	12,014	13,200	11,000 to 14,000
Seed	3,220	3,428	3,172	2,993	3,448	3,350	2,984	3,009	3,000	3,000 to 4,000
Farm-origin inputs	34,861	33,282	31,448	33,532	32,798	30,323	28,907	31,116	36,900	36,000 to 40,000
Fertilizer	9,491	9,409	8,018	7,067	7,429	7,259	5,787	5,392	5,900	6,000 to 8,000
fuels & oils	7,879	8,570	7,888	7,503	7,143	6,584	4,790	4,442	4,600	4,000 to 6,000
Electricity	1,526	1,747	2,041	2,146	2,166	2,150	1,942	2,393	2,500	2,000 to 3,000
Pesticides	3,539	4,201	4,282	4,154	4,767	4,994	4,485	4,588	4,600	5,000 to 6,000
Manufactured inputs	22,435	23,927	22,229	20,870	21,505	20,987	17,004	16,815	17,600	18,000 to 22,000
Short-term interest	8,717	10,722	11,349	10,615	10,396	8,821	7,795	7,305	7,800	7,000 to 9,000
Real estate interest 1/	7,544	9,142	10,481	10,815	10,733	9,878	9,131	8,202	8,300	7,000 to 9,000
Total interest charges	16,261	19,864	21,830	21,430	21,129	18,699	16,926	15,508	16,000	15,000 to 17,000
Repair & maintenance 1/ 2/	7,075	7,021	6,428	6,529	6,416	6,370	6,426	6,546	7,000	7,000 to 8,000
Contract & hired labor	9,293	8,931	10,075	9,725	9,729	9,799	9,879	10,747	11,400	11,000 to 13,000
Machine hire & custom work	1,823	1,984	2,025	1,896	2,170	2,184	1,810	1,956	2,100	2,000 to 3,000
Marketing, storage, & transportation Misc. operating expenses 1/ Other operating expenses	3,070	3,523	4,301	3,904	4,012	4,127	3,652	3,823	3,700	4,000 to 5,000
	6,881	6,909	7,262	9,089	9,106	8,232	7,993	8,311	7,600	6,000 to 8,000
	28,142	28,368	30,089	31,143	31,433	30,712	29,760	31,383	33,200	32,000 to 36,000
Capital consumption 1/	21,474	23,573	24,287	23,873	23,105	20,847	18,916	17,348	16,800	17,000 to 18,000
Taxes 1/	3,891	4,246	4,036	4,469	4,059	4,231	4,125	4,345	4,400	4,000 to 5,000
Net rent to nonoperator landlord Other overhead expenses	6,075 31,440	6,184 34,003	6,059 34,381	5,060 33,402	8,640 35,805	8,158 33,236	6,698 29,739	6,987 28,680	7,800 29,100	7,000 to 8,000 28,000 to 31,000
Total production expenses	133,139	139,444	139,980	140,377	142,669	133,957	122,335	123,502	132,800	136,000 to 140,000

^{1/} Includes operator dwellings. 2/ Begimming in 1982, miscellaneous operating expenses include other livestock purchases & dairy assessments. Totals may not add because of rounding. F = forecast.

Information contacts: Chris McGath (202) 786-1804, Andy Bernat (202) 786-1808.

Table 37.—CCC Net Outlays by Commodity & Function_

					Fis	cal yea	r				
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989 E	1990 E
					1	millio	n				
COMMODITY/PROGRAM Feed grains Wheat Rice Upland cotton	1,286 879 -76 64	-533 1,543 24 336	5,397 2,238 164 1,190	6',815 3,419 664 1,363	-758 2,536 333 244	5,211 4,691 990 1,553	12,211 3,440 947 2,142	13,967 2,836 906 1,786	9,053 678 128 666	3,042 279 999 2,538	5,562 1,052 959 994
Tobacco Dairy Soybeans Peanuts	-88 1,011 116 28	·51 1,894 87 28	103 2,182 169 12	880 2,528 288 -6	346 1,502 -585 1	2,085 711 12	253 2,337 1,597 32	-346 1,166 -476 8	1,295 -1,676 7	-569 662 -32 5	-280 893 116 4
Sugar Honey Wool	-405 9 3 5	-121 8 42	-5 27 54	49 48 94	10 90 132	184 81 109	214 89 123	-65 73 152	-246 100 1/ 5	0 60 89	0 55 98
Operating expense Interest expenditure Export programs Other	157 518 -669 -113	159 220 -940 1,340	294 -13 65 -225	328 3,525 398 -1,542	362 1,064 743 1,295	346 1,435 134 -314	457 1,411 102 486	1,219 276 371	614 395 200 1,695	583 263 116 5,788	635 284 107 1,100
Total	2,752	4,036	11,652	18,851	7,315	17,683	25,841	22,408	12,461	13,843	11,579
FUNCTION Price-support loans (net)	-66	174	7,015	8,438	-27	6,272	13,628	12,199	4,579	- 153	1,011
Direct payments Deficiency Diversion Dairy termination Other Disaster Total direct payments	79 56 0 25 258 418	0 0 0 0 1,030 1,030	1,185 0 0 0 306 1,491	2,780 705 0 0 115 3,600	1,504 0 0 1 2,117	6,302 1,525 0 0 0 7,827	6,166 64 489 27 0 6,746	4,833 382 587 60 0 5,862	3,971 8 260 0 4,245	5,889 0 200 83 0 6,172	7,006 0 189 0 0 7,195
1988 crop disaster	D	0	0	0	0	0	<u>o</u>	0	0	3,613	0
Emergency livestock/ forage assistance Purchases (net)	23 1,681	329 1,602	16 2,031	0 2,540	0 1,470	0 1,331	1,670	-4 79	-1,131	902 -10	5 1 9
Producer storage payments	254	32	679	964	268	329	485	832	658	319	174
Processing, Storage,	259	323	355	665	639	657	1,013	1,659	1,113	6 54	443
Operating expense Interest expenditure Export programs Other	157 518 -669 177	159 220 -940 1,107	294 - 13 - 65 - 281	328 3,525 398 -1,607	362 1,064 743 679	346 1,435 134 -648	457 1,411 102 329	535 1,219 276 305	614 395 200 1,757	583 283 116 1,364	635 284 107 1,203
Total	2,752	4,036	11,652	18,851	7,315	17,683	25,841	22,408	12,461	13,843	11,579

1/ Fiscal year 1988 wool & mohair program outlays were \$130,635,000 but include a one-time advance appropriation of \$126,108,000, which was recorded as a wool program receipt by treasury. E = estimated in the fiscal 1990 President's Budget. Minus (*) indicates a net receipt (excess of repayments or other receipts over gross outlays of funds).

Information contact: Richard Pazdalski (202) 447-5148.

Food Expenditures

Table 38.—Food Expenditure Estimates_

(See the July 1989 issue.)

Information contact: Alden Manchester (202) 786-1880.

Transportation

Table 39.—Rail Rates; Grain & Fruit/Vegetable Shipments

		Annual			1988			105.9 P 105.9 P 106.1 P 106 109.4 P 109.0 P 109.0 P 108 109.7 P 109.2 P 109.2 P 108			
	1986	1987	1988	Hay	Dec	Jan	Feb	Mar	Apr	May	
Rail freight rate index 1/ (Dec. 1984=100) All products Farm products Grain Food products	100.7 99.6 98.9 99.9	100.1 99.3 98.7 98.6	104.8 105.6 105.4 103.2	105.2 104.4 104.1 103.9	105.4 108.0 108.2 103.6	105.8 108.9 109.2 103.8	109.4 P 109.7 P	109.0	P 109.0 P P 109.2 P	108.6 P 108.8 P	
Grain shipments Rail carloadings (1,000 cars) 2/ Fresh fruit & vegetable shipments Piggy back (1,000 cwt) 3/ 4/ Rail (1,000 cwt) 3/ 4/ Truck (1,000 cwt) 3/ 4/	24.4 629 563 9,031	29.0 588 660 9,137	30.6 532 606 9,534	30.8 765 718 11,569	27.4 E 419 711 9,341	374 701	419 583	455 686	P _ 30.1 P 502 571 10,293 1	25.9 P 763 683 1,301	
Cost of operating trucks hauling produce 5/ Owner operator (cts./mile) fleet operation (cts./mile)	113.1 113.6	116.3 116.5	118.7 118.4	118.5 118.3	120.4 120.1	121.3 121.0	122.J 121.4	122.9 121. 9	124.1 123.1	123.5 122.6	

1/ Department of Labor, Bureau of Labor Statistics. 2/ Weekly average; from Association of American Railroads. 3/ Weekly average; from Agricultural Marketing Service, USDA. 4/ Preliminary data for 1988 & 1989. 5/ Office of Transportation, USDA. P = preliminary.

Information contact: T.Q. Hutchinson (202) 786-1840.

Indicators of Farm Productivity

Table 40.—Indexes of Farm Production Input Use & Productivity¹

(See the March 1989 issue.)

Information contact: Jim Hauver (202) 786-1459.

Food Supply and Use

Table 41.—Per Capita Consumption of Major Food Commodities ___

(See the March 1989 issue.)

Information contact: Judy Putnam (202) 786-1870.

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